FROST & ADAMS'

CATALOGUE

OF

ARTIST'S MATERIALS,

AND

Mathematical Instruments.

37 CORNHILL, BOSTON, MASS.

POCKET

EDITION.

TO OUR PATRONS.

FROST & ADAMS, 37 CORNHILL
BOSTON, DEC. 1, 1886.

Since the issue of our last Catalogue the increased demand for

ARTISTS' MATERIALS,

Decorative Art Goods and Art Studies,

has caused many additions to be made to our stock, which it is our endeavor at all times to have complete in all its branches.

We call special attention to the following new goods.

Repoussé Tools and Materials,
Tourists' Sketching Materials,
Brass Plaques, etc.
Metallic Colors, Spangles, etc.
Materials for Tapestry Painting,
Kensington Painting Materials,
Art Books,
Flower and Landscape Studies, etc

(Separate lists of these goods can be had on application.)

We still continue, through our London, Paris and Dusseldorf Agents, to fill special orders for such articles as our customers may wish imported, that we do not keep in stock.

Architects, Engineers and Draughtsmen will find our stock of supplies and Mathematical Instruments the most complete in New England. We would call their attention to our special Instrument Catalogue and sample book of Drawing and Tracing Papers.

Architects and Artists will be pleased to learn that we have taken the agency for Albert Levy's celebrated "Blue Process Paper." We are also the New England Agents for A. Millochau's Indestructible "Black Drawing Ink" also, New England Agents for T. Bergner's improved patent Drawing Boards, and Stearns, Fitch & Co.'s patent Portable Kilns for Firing China.

This Catalogue (twenty-fourth pocket edition) is about two-thirds the size of our principal catalogue — of which it is a fac-simile. This should be kept in mind when examining the illustrations designed to represent the full line of articles, such as Cake and Tube Colors, Brushes, etc.

Renewing our thanks to the patrons who have so generously given us their orders, we assure them that no efforts shall be wanting on our part to supply their future wants.

FROST & ADAMS

DESCRIPTIVE CATALOGUE.

FROST & ADAMS.

IMPORTERS

OF

Artists' Materials,

DRAUGHTING PAPERS, TRACING CLOTH,

AND

MATHEMATICAL INSTRUMENTS,

No. 37 CORNHILL, BOSTON.

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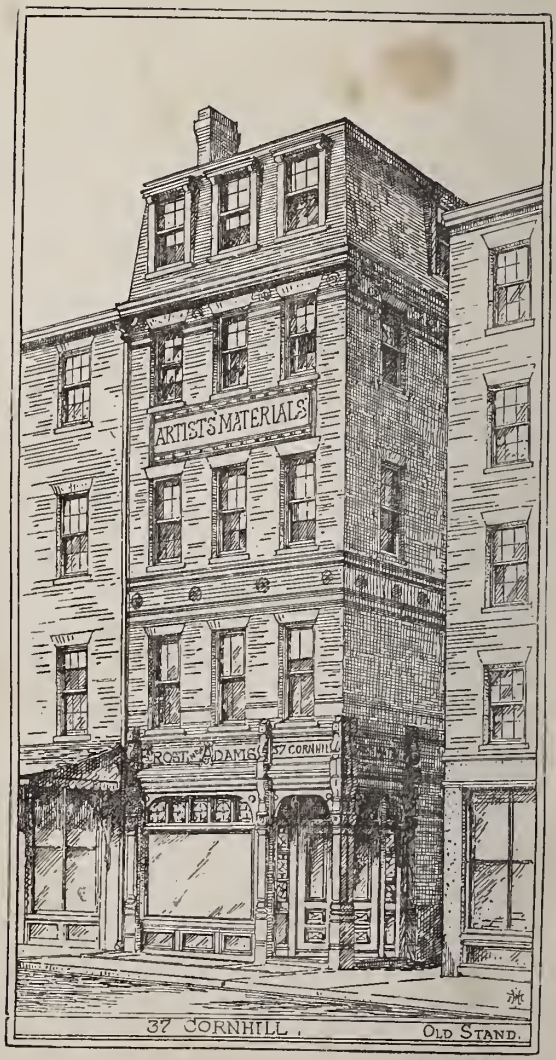

37 CORNHILL. OLD STAND.

AVERY LIBRARY
COLUMBIA UNIVERSITY

INTRODUCTORY.

We have the largest and best assorted stock of ARTISTS' MATERIALS and MATHEMATICAL INSTRUMENTS, both of foreign and domestic manufacture in the New England States.

We have become well established in our new store, where we have more and better room, both for the display of goods, and for the convenience and comfort of our patrons. See illustrations *following title page.* We shall, as formerly, give our entire attention to the Artists' Material business in its various branches, and keep well stocked up with selections from the best foreign and domestic markets.

We shall continue to import and give prominence to the manufactures of Messrs. Winsor & Newton of London, which are still in great demand. Also, French and German goods.

With thanks for past favors, we invite the attention of all using Artists' Materials to the full stock here catalogued, trusting that we may, as heretofore, fully meet their requirements.

We would call the attention of our customers to the following

DIRECTIONS.

In ordering from this catalogue it will be necessary simply to state number and kind.

Parties unknown to us should accompany their orders with the money, or give us convenient and satisfactory references as to their financial standing.

When goods are forwarded by express with C. O. D. bill, the Express Co's charge for collecting money and returning same will be added to said bill.

Merchandise not injurious to the mails and not exceeding four pounds in weight, can be forwarded to any part of the United States on prepayment of postage, at the rate of one cent per ounce.

Liquids and Oil Colors cannot be sent by mail.

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Goods will be packed with the utmost care for mail, express, freight or otherwise; but all packages must be at the risk of the purchaser after leaving our hands, except by special agreement.

FROST & ADAMS.

N. B. The AMERICAN EXPRESS CO. MONEY ORDER SYSTEM is one of the best means of remitting.

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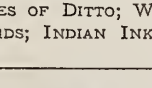
FROST & ADAMS' CATALOGUE.

SECTION I.

WATER COLORS,

COMPRISING

WATER COLORS IN CAKES AND HALF CAKES, FITTED BOXES OF DITTO; MOIST COLORS IN PANS AND HALF PANS, FITTED BOXES OF DITTO; WATER COLOR LIQUIDS; INDIAN INK; &c.

TRADE  MARK.

W. & N.

Winsor & Newton's Water Colors.

Previous to the establishment of the house of Winsor and Newton (in 1832), the evil repute of want of permanence attached to the *Water Colors* in ordinary use; and the most beautiful productions of Water Color Art were inevitably fugitive through the instability of the materials employed.

This deplorable state of so beautiful and purely an art, urged Winsor and Newton to earnest inquiry and research, with a view of raising the character of the material employed.

Their first care was to exclude, as far as possible, all objectionable pigments; and to bring forward and recommend only colors that could be relied on for permanence, and from which purity and richness of tone were obtainable.

They next turned their attention to the employment of machinery in grinding, and overcame all difficulties on this score in 1840.

The high standard of excellence sought by Winsor and Newton entirely set aside all common recipes and pernicious compounds, and rendered indispensable the aid of Chemical Science. Consequently perfectly appointed Chemical Works were established by them in 1844.

The advantageous results of the establishment of these Works were apparent in the production of colors totally different from previous manufactures. The old colors were improved and new ones introduced. Of WINSOR & NEWTON'S WATER COLORS, therefore, it may be stated, that sound chemical knowledge and complete laboratory plant and apparatus,—powerful and specially adapted machinery,—and the matured experience of many years, ensure *purity of Pigment, exquisite fineness, and a most perfect form of preparation for the Artist's palette.*

Winsor & Newton's Finely Prepared

Water Colors in Dry Cakes and Half Cakes.

CAKE.

HALF CAKE.

No. 1. WHOLE CAKES, 25 CENTS; HALF CAKES, 13 CENTS.

Antwerp Blue	Flake White	Payne's Grey
Bistre	Gamboge	Prussian Blue
Blue Black	Hooker's Green, No. 1	Prussian Green
British Ink	Hooker's Green, No. 2	Raw Sienna
Brown Ochre	Indigo	Raw Umber
Brown Pink	Indian Red	Red Chalk
Bronze	Italian Pink	Red Lead
Burnt Roman Ochre	Ivory Black	Red Ochre
Burnt Sienna	King's Yellow	Roman Ochre
Burnt Umber	Lamp Black	Sap Green
Chinese White	Light Red	Terre Verte
Chrome Yellow	Naples Yellow	Vandyke Brown
Cologne Earth	Neutral Tint	Venetian Red
Deep Chrome	New Blue	Vermilion
Dragon's Blood	Olive Green	Yellow Lake
Emerald Green	Orange Chrome	Yellow Ochre

No. 2. WHOLE CAKES, 45 CENTS; HALF CAKES, 23 CENTS.

Black Lead	Mars Yellow	Scarlet Lake
Brown Madder	Neutral Orange	Scarlet Vermilion
Chalon's Brown	Purple Lake	Sepia
Crimson Lake	Roman Sepia	Warm Sepia
	Ruben's Madder	

No. 3. WHOLE CAKES, 55 CENTS; HALF CAKES, 28 CENTS.

Cobalt Blue	Orange Vermilion	Violet Carmine
	Indian Yellow	

No. 4. WHOLE CAKES, 90 CENTS; HALF CAKES, 45 CENTS.

Aureolin	Gallstone	Pink Madder
Burnt Carmine	Green Oxide of Chro'um	Pure Scarlet
Cadmium Orange	Indian Purple	Rose Madder
Cadmium Yellow	Intense Blue	Viridian
Carmine	Lemon Yellow	
French Blue	Pale Cadmium Yellow	

No. 5. WHOLE CAKES, $1.40; HALF CAKES, 70 CENTS.

Field's Orange Vermil.	Mars Orange	Smalt
Madder Carmine	Purple Madder	Ultramarine Ash

No. 6. HALF CAKES, $4.00; QUARTER CAKES, $2.00.

Genuine Ultramarine

Winsor & Newton's French Polished Mahogany

Whole Cake Boxes of Water Colors.

SLIDE COVER BOXES.

No. 7.	6 Cake "Slide Cover" Box, with Brushes,	$2.00
	12 Cake, ditto,	4.25
	18 Cake, ditto,	6.25

LOCK BOXES.

No. 8.	12 Cake "Lock" Box, with fittings,	$5.00
	18 Cake, ditto,	7.00

LOCK AND DRAWER BOXES.

No. 9.	12 Cake, "Lock and Drawer" Box, with fittings,	$6.00
	18 Cake, ditto,	7.75

COMPLETE BOXES.

No. 10.	12 Cake "Complete" Box, with fittings,	$7.50
	18 Cake, ditto,	10.00
	24 Cake, ditto,	13.75

CADDY LID BOXES.

No. 11.	12 Cake "Caddy Lid" Box, with full fittings,	$10.75
	18 Cake, ditto,	14.25
	24 Cake, ditto,	21.00

HANDSOME BOXES.

No. 12.	12 Cake "Handsome" Box, with first-class fittings,	$28.00
	18 Cake, ditto,	35.00
	24 Cake, ditto,	50.00
	36 Cake, ditto,	78.50

Winsor & Newton's French Polished Mahogany

Half Cake Boxes of Water Colors.

SLIDE COVER BOXES.

No. 13.	6 Half Cake "Slide Cover" Box, with Brushes,	$1.30
	12 Half Cake, ditto,	2.20
	18 Half Cake, ditto,	3.25
	24 Half Cake, ditto,	4.25

LOCK BOXES.

No. 14.	12 Half Cake "Lock" Box, with fittings,	$3.15
	18 Half Cake, ditto,	4.15
No. 15.	12 Half Cake "Lock and Drawer" Box, with fittings,	$4.00
	18 Half Cake, ditto,	5.00
No. 16.	12 Half Cake "Complete" Box, with fittings,	$4.50
	18 Half Cake, ditto,	5.75

CADDY LID BOXES.

No. 17.	12 Half Cake "Caddy Lid" Box, with full fittings,	$6.75
	18 Half Cake, ditto,	8.25

Miscellaneous Water Colors, &c.

No. 18. Chenal's French Water Colors, Whole Cakes, Solferino, Magenta, Mauve, per cake, ...17

No. 19. School of Art Color Box, containing ten colors with brushes, . .50

No. 19½. Murillo Color Box: 16 pans of superior moist color, tubes of Chinese White and Sepia, 4 C. H. Pencils, in Japanned Box, 1.25

No. 19¾. Rembrant Color Box: 12 moist pans, Brushes, in Japanned Box, .50

No. 20. Cassell's Toy Color Boxes, ranging in price per box from .40 to $1.20
A large variety of cheap Toy Color Boxes constantly on hand.

No. 21. Glass Medium, for Water Color Painting, per bottle, ...70

Winsor & Newton's

Moist Water Colors in Pans and Half Pans.

PAN.

HALF PAN.

No. 22. WHOLE PANS, 25 CENTS; HALF PANS, 13 CENTS.

Antwerp Blue	Hooker's Green, No. 1	Payne's Grey
Bistre	Hooker's Green, No. 2	Prussian Blue
Blue Black	Indigo	Prussian Gree
Brown Ochre	Indian Red	Raw Sienna
Brown Pink	Italian Pink	Raw Umber
Burnt Sienna	Ivory Black	Roman Ochre
Burnt Umber	Lamp Black	Sap Green
Chinese White	Light Red	Terre Verte
Chrome Yellow	Mauve	Vandyke Brown
Cologne Earth	Naples Yellow	Venetian Red
Deep Chrome	Neutral Tint	Vermilion
Emerald Green	New Blue	Yellow Lake
Gamboge	Olive Green	Yellow Ochre
	Orange Chrome	

No. 23. WHOLE PANS, 45 CENTS; HALF PANS, 23 CENTS.

Brown Madder	Neutral Orange	Scarlet Vermilion
Cerulean Blue	Purple Lake	Sepia
Crimson Lake	Roman Sepia	Warm Sepia
Mars Yellow	Ruben's Madder	
	Scarlet Lake	

No. 24. WHOLE PANS, 55 CENTS; HALF PANS, 28 CENTS.

Cobalt Blue	Lemon Yellow	Violet Carmine
Indian Yellow	Orange Vermilion	Viridian

No. 25. WHOLE PANS, 90 CENTS; HALF PANS, 45 CENTS.

Aureolin	Gallstone	Pink Madder
Burnt Carmine	Green Oxide of Chromium	Pure Scarlet
Cadmium Orange	Indian Purple	Rose Madder
Cadmium Yellow	Intense Blue	Viridian
Carmine	Mars Orange	
French Blue	Pale Cadmium Yellow	

No. 26. WHOLE PANS, $1.40; HALF PANS, 70 CENTS.

Purple Madder	Smalt	Ultramarine Ash

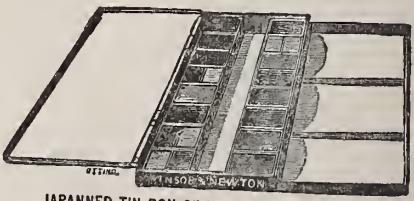
NOTE.—Winsor & Newton's Moist Colors are placed in pans of thin porcelain, and they are afterwards enclosed in tin-foil for greater security. When required for use, the foil is removed. A surface of color is then presented to the artist, which is obtainable in any quantity, simply by the application of a wet brush.

Their characteristic qualities of easy solubility and prompt readiness for use are retained, unimpaired, for an unlimited period of time; so that a box of them, which may have been laid aside for two or three years, when required for use will be found *no less serviceable than when first purchased.* While having this valuable quality of solubility in their solid form, they possess another and all important one, *in drying perfectly firm on the paper* when in use. Their tints, too, are pure and luminous, and their washes clear and even. Climate also fails to affect these colors.

In Sketching from Nature, and when representing transient and evanescent effects, the superiority of the Moist Colors is at once felt and appreciated. Ever ready for instant application, they enable the desired tint to be produced *at once.* It was this quality which, on their first introduction, secured for Winsor & Newton's Moist Colors the eminent popularity that they still enjoy with both professional and amateur artists.

Winsor & Newton's Japanned Tin

Whole Pan Boxes of Moist Water Colors.



JAPANNED TIN BOX OF MOIST WATER COLORS.

These Boxes are light and strong, with covers whose inner surfaces are enamelled with a dead white color, serving as palettes. *The Selections of Moist Colors placed in them have been made with much care, and after due study of the various lists of the first Water Color Artists.*

Prices of Empty Boxes will be found in Section 6, "JAPANNED WARE AND METAL WORK."

No. 27.	4 Pan Box, containing Raw Sienna, Light Red, Cobalt, and Vandyke Brown, ...	$2.50
	6 Pan Box, containing Gamboge, Yellow Ochre, Crimson Lake, Light Red, Prussian Blue, and Vandyke Brown, ...	3.00
	8 Pan Box, containing Gamboge, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Cobalt, Indigo, and Vandyke Brown,	3.90
	10 Pan Box, containing Gamboge, Aureolin (½), Raw Sienna (½), Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Cobalt, Indigo, Brown Pink, and Vandyke Brown, ...	4.95

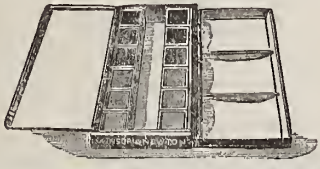
No. 27. 12 Pan Box, containing Gamboge, Aureolin (½), Raw Sienna (½), Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Vermilion (½), Indian Red (½), Cobalt, Indigo, Brown Pink, Vandyke Brown, and Neutral Tint, ... $5.50

16 Pan Box, containing Gamboge, Aureolin (½), Raw Sienna (½), Yellow Ochre, Lemon Yellow (½), Cadmium Yellow (½), Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion (½), Indian Red (½), Brown Madder, Cobalt, Indigo, Emerald Green (½), Viridian (½), Brown Pink, Vandyke Brown, and Neutral Tint, ... 8.90

18 Pan Box, containing Gamboge, Aureolin (½), Raw Sienna (½), Yellow Ochre, Lemon Yellow (½), Cadmium Yellow (½), Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion (½), Indian Red (½), Brown Madder, Purple Lake, Cobalt, Indigo, Emerald Green (½), Viridian (½), Brown Pink, Vandyke Brown, Neutral Tint, and Sepia, ... 9.95

Winsor & Newton's Japanned Tin

Half Pan Boxes of Moist Water Colors.



HALF PAN JAPANNED TIN BOX OF MOIST WATER COLORS.

No. 28. 6 Half Pan Box, containing Gamboge, Yellow Ochre, Crimson Lake, Light Red, Prussian Blue, and Vandyke Brown, . . $2.10

8 Half Pan Box, containing Gamboge, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Cobalt, Indigo, and Vandyke Brown, ... 2.00

10 Half Pan Box, containing Gamboge, Raw Sienna, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Cobalt, Indigo, Brown Pink, and Vandyke Brown, ... 3.00

12 Half Pan Box, containing Gamboge, Raw Sienna, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Vermilion, Brown Madder, Cobalt, Indigo, Brown Pink, and Vandyke Brown, ... 3.45

16 Half Pan Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Cadmium Yellow, Burnt Sienna, Crimson Lake, Light Red, Vermilion, Indian Red, Brown Madder, Cobalt, Indigo, Brown Pink, Vandyke Brown, and Neutral Tint, . . 4.95

No. 28. 18 Half Pan Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Cadmium Yellow, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion, Indian Red, Brown Madder, Cobalt, Indigo, Emerald Green, Brown Pink, Vandyke Brown, and Neutral Tint, ... $5.64

20 Half Pan Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Cadmium Yellow, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion, Indian Red, Brown Madder, Cobalt, French Blue, Indigo, Emerald Green, Oxide of Chromium, Brown Pink, Vandyke Brown, and Neutral Tint, . 6.65

24 Half Pan Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Lemon Yellow, Cadmium Yellow, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion, Indian Red, Brown Madder, Purple Madder, Cobalt, French Blue, Prussian Blue, Indigo, Emerald Green, Oxide of Chromium, Brown Pink, Vandyke Brown, Neutral Tint, and Sepia, . . 8.35

Winsor & Newton's

Quarter Cake Boxes of Moist Water Colors.

QUARTER CAKE BOX OF MOIST WATER COLORS.

The Lists of Colors are the same as those of the Half Pan Boxes of Moist Water Colors (Page 17).

No. 29 6 Quarter Cake Box of Moist Water Colors, ... $1.40
8 Quarter Cake ditto, ... 1.80
10 Quarter Cake ditto, ... 2.00
12 Quarter Cake ditto, ... 2.35
14 Quarter Cake ditto, ... 2.70
16 Quarter Cake ditto, ... 3.20

Winsor & Newton's

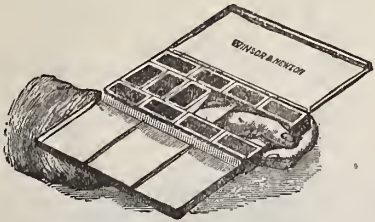
Half Pan Palette-Boxes of Moist Water Colors.

The Lists of Colors are the same as those of the Half Pan Boxes of Moist Water Colors (Page 17).

No. 29½ 6 Half Pan "Palette-Box" of Moist Water Colors, ... $3.00
8 Half Pan ditto, ... 3.75
10 Half Pan ditto, ... 4.25
12 Half Pan ditto, ... 5.00

Winsor & Newton's Improved Japanned Tin

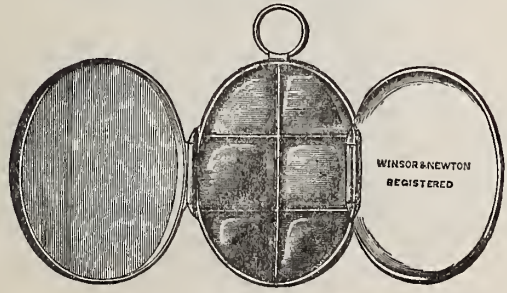
Thumb-Hole Boxes of Moist Water Colors.



THUMB-HOLE BOX.

No. 30. 11 Pan "Thumb-Hole" Box, containing 17 Colors, ... $7.75
17 Pan "Thumb-Hole" Box, containing 24 Colors, ... 11.50
21 Pan "Thumb-Hole" Box, containing 28 Colors, ... 13.50

Winsor & Newton's Locket Box.

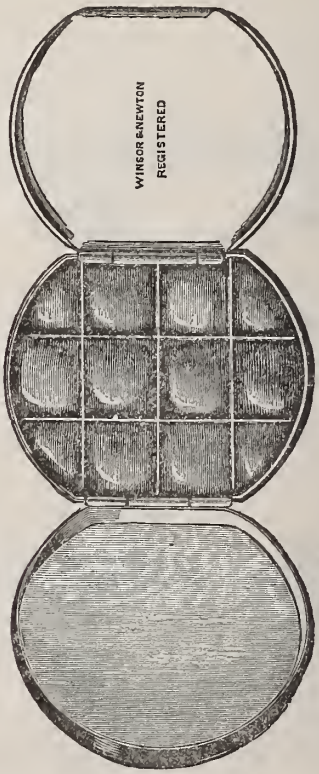


LOCKET BOX. (Size of the Box.)

A neat, light, bijou Box, that can be carried on a watch-guard or chain, and containing six Colors.

No. 31. The "Locket" Box, fitted with 6 Colors, ... $2.00

Winsor & Newton's Porte-Couleur.

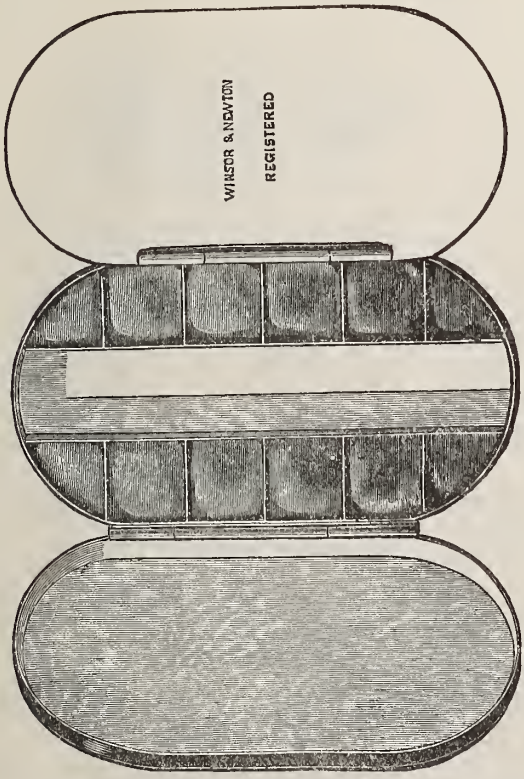


PORTE-COULEUR. (Size of the Box.)

Small and compact for the waistcoat-pocket. Contains twelve Colors.

No. 32. The "Porte-Couleur," fitted with 12 Colors, ... $3.50

Winsor & Newton's Oval-Pocket-Box.



OVAL-POCKET-BOX. (Size of the Box.)

Very convenient for the pocket, both in shape and size. Contains twelve Colors, and has a division for brushes.

No. 33. The "Oval-Pocket-Box," fitted with 12 Colors. $4.50

Winsor & Newton's

Moist Water Colors in Collapsible Tubes.

TUBE OF MOIST WATER COLOR.

No. 33*a*. 25 CENTS PER TUBE.

Antwerp Blue	Indigo	Prussian Blue
Bistre	Italian Pink	Prussian Green
Blue Black	Ivory Black	Raw Sienna
Brown Ochre	Lamp Black	Raw Umber
Brown Pink	Light Red	Roman Ochre
Burnt Sienna	Naples Yellow	Terre Verte
Burnt Umber	Neutral Tint	Vandyke Brown
Chrome Yellow	New Blue	Venetian Red
Deep Chrome	Olive Green	Vermilion
Emerald Green	Orange Chrome	Yellow Lake
Gamboge	Payne's Grey	Yellow Ochre
Indian Red		

No. 33*b*. 45 CENTS PER TUBE.

Brown Madder	Mars Yellow	Scarlet Lake
Crimson Lake	Neutral Orange	Scarlet Vermilion
Leitch's Blue (or Cyanine Blue	Purple Lake	Sepia
	Roman Sepia	Warm Sepia

No. 33*c*. 65 CENTS PER TUBE.

Cobalt Blue	Orange Vermilion	Violet Carmine
	Indian Yellow	

No. 33*d*. 90 CENTS PER TUBE.

Aureolin	Carmine	Indian Purple
Burnt Carmine	French Blue (or French Ultramarine)	Pink Madder
Cadmium Yellow, Pale	Gallstone	Rose Madder (or Madder Lake)
Cadmium Yellow	Green Oxide of Chro'um	Viridian
Cadmium Orange		

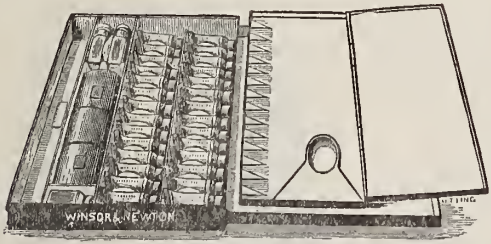
No. 33*e*. $1.40 PER TUBE.

Mars Orange	Purple Madder	Ultramarine Ash
	Smalt	

A full stock of Newman's Slow Drying Moist Water Colors in Tubes, also Geo. Rowney's Moist Water Colors in Tubes and Pans.

Winsor & Newton's Japanned Tin

Boxes of Moist Water Colors in Collapsible Tubes.



30 MOIST TUBE BOX.

No 33*f*. 30 Moist Tube Box, containing Gamboge, Aureolin, Indian Yellow, Raw Sienna, Yellow Ochre, Deep Chrome, Orange Chrome, Mars Orange, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Orange Vermilion, Vermilion, Indian Red, Brown Madder, Purple Lake, Violet Carmine, Cobalt, French Blue, Prussian Blue, Indigo, Emerald Green, Viridian, Olive Green, Brown Pink, Vandyke Brown, Neutral Tint, Sepia and Ivory Black. Also bottles of Chinese White, Indelible Brown Ink, Liquid Ox Gall; and a copper plated Water Bottle, ... $21.65
The same box empty, ... 6.00

24 Moist Tube Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Deep Chrome, Mars Orange, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion, Indian Red, Brown Madder, Purple Lake, Cobalt, French Blue, Prussian Blue, Indigo, Emerald Green, Viridian, Brown Pink, Vandyke Brown, Neutral Tint, and Sepia, ... 15.45
The same box empty, ... 4.50

20 Moist Tube Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Deep Chrome, Burnt Sienna, Rose Madder, Crimson Lake, Light Red, Vermilion, Indian Red, Brown Madder, Cobalt, French Blue, Indigo, Viridian, Brown Pink, Vandyke Brown, Neutral Tint and Sepia, ... 12.70
The same box empty, ... 4.10

15 Moist Tube Box, containing Gamboge, Aureolin, Raw Sienna, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Indian Red, Brown Madder, Cobalt, Indigo, Viridian, Brown Pink, Vandyke Brown and Neutral Tint, ... 9.00
The same box empty, ... 3.20

12 Moist Tube Box, containing Gamboge, Raw Sienna, Yellow Ochre, Burnt Sienna, Crimson Lake, Light Red, Vermilion, Cobalt, Indigo, Brown Pink, Vandyke Brown and Neutral Tint, ... 6.30
The same box empty, ... 2.70

Dr. Fr. Schoenfeld & Co's

Water Colors in Bottles.

No. 339.

Dr. Schoenfeld's Water Colors have gained a high celebrity in this market for their brilliancy and dependable working qualities; in this respect they are not surpassed by any other make and have besides the recommendation of lowness of price.

The Water Colors in Bottles are especially adapted for large sketches and for paintings on silk.

30 CENTS PER BOTTLE.

Antwerp Blue	Flake White	Permanent Green, deep
Asphalt	Gamboge	Prussian Blue
Bone Brown	Gold Ochre	Permanent Blue
Brown Ochre	Gold Yellow	Persian Red
Brown Pink	Green Lake, light	Red Lead
Burnt Gold Ochre	Green Lake, deep	Raw Sienna
Burnt Umber	Hooker's Green, No. 1	Raw Umber
Burnt Sienna	Hooker's Green, No. 2	Roman Ochre
Burnt Terre Verte	Indian Red	Roman Brown
Brilliant Yellow, light	Ivory Black	Sap Green
Brilliant Yellow, deep	Indigo	Terre Verte
Burnt Lake	Japan Yellow	Ultramarine Yellow
Cappah Brown	Lamp Black	Vandyke Brown
Cassel Earth	Light Red	Venetian Red
Cologne Earth	Mauve	Vermilion, light
Chrome Green	Mineral Blue	Vermilion, Chinese
Caput Mortum	Naples Yellow	Vermilion, light-green
Chrome Yellow, light	Naples Yellow, reddish	Vermilion, yellow-green
Chrome Yellow, medium	Neutral Tint, No. 1	Vermilion, dark-green
Chrome Yellow, deep	Neutral Tint, No. 2	Yellow Ochre, No. 1
Chrome Yellow, orange	New Blue	Yellow Ochre, No. 2
China White, Permanent	Olive Green	Yellow Ultramarine, (Lemon Yellow)
Cremnitz White	Payné's Grey	Zinc White
Dragon's Blood	Permanent Green, light	
Emerald Green	Permanent Green, med.	

45 CENTS PER BOTTLE.

Brown Madder	Indian Yellow	Scarlet Lake
Carmine Lake, II	Mars Yellow	Scarlet Vermilion
Crimson Lake	Mars Orange	Sepia
Celestial Blue	Purple Lake	Sopia, warm

55 CENTS PER BOTTLE.

Cobalt Blue	Violet Carmine	Violet Lake

65 CENTS PER BOTTLE.

Burnt Carmine	Madder Lake, deep	Rose Madder
Cadmium, light	Pink Madder	Ultramarine
Cadmium, deep	Purple	

75 CENTS PER BOTTLE.

Aureolin	Malachite Green	Oxide Chromium, green-blue
Carmine	Oxide Chromium, blue-green	
Emeraude Green		

$1.00 PER BOTTLE.

Purple Madder	Smalt	Ultramarine Ash

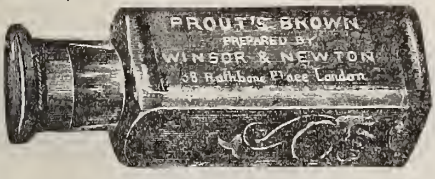
German Moist Water Colors in Tubes, in stock.

Winsor & Newton's

Water Color Mediums, Liquids, Etc.

BOTTLE OF CHINESE WHITE. (Size of Bottle.)

No. 34.	Chinese White,	per bottle,	.30
	Chinese White, same quantity,	per tube,	.30
	Artists' Prepared Gum-Water,	per bottle,	.20
	Water Color Megilp,	"	.60
	Illuminating Body, for Illumination, Missal Painting, etc.,	"	.50
	Raising Preparation, for Illumination, Missal Painting, etc.,	"	.50
	Water Mat Gold Size,	"	.50
	White Ink,	"	.25



BOTTLE OF LIQUID COLOR. (Size of Bottle.)

No. 35.	Liquid Indelible Brown Ink,	per bottle,	.30
	Liquid Prout's Brown,	"	.30
	Liquid Sepia,	"	.30
	Liquid Carmine, made from the finest Orient Carmine,	"	.30
	Liquid Indian Ink, for Architects, Surveyors, etc.,	"	.30
	Colorless Liquid Ox Gall,	"	.30
	Prepared Ox Gall, in pots,		.17

Indian-Ink.

A.

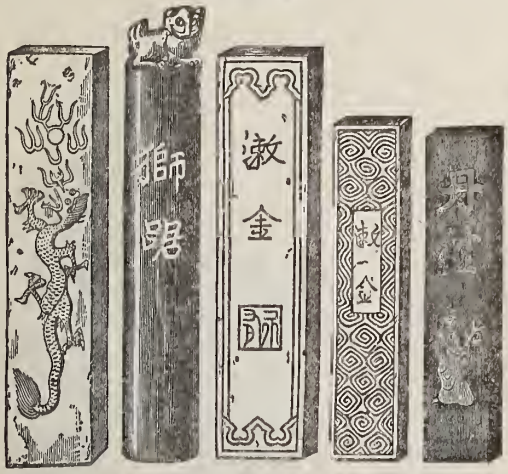
B.

C.

D. SUPER SUPER INDIAN INK.

No. 36.	A.	Pearl, very rich,	per cake,	$3.00
	B.	Half size "Super Super,"	"	1.00
	C.	Black "	"	2.50
	D.	Winsor & Newton's "Super Super,"	"	2.00
	E.	" " Square Gilt,	"	.50
	F.	" " Oval Lion's Head,	"	.60
	G.	" " Choice Square,	"	.40
	H	" Best, small size,	"	.20

Full Size.



E. F. G. H I.

No. 36.	I.	Winsor & Newton's Good, small size, ...	per cake,	.15
	K.	Best Imitation Winsor & Newton's "Super Super,"	"	1.50
	L.	Choice Square Gilt, size of E, ...	"	.35
	M.	Medium quality Lion's Head Gilt, ...	"	.40
	N.	" " Black, ...	"	.25
	O.	Small Lion's Head Black, ...	"	.15
	P.	Ordinary, size I, ...	"	.10
	Q.	Japan Ink, flat sticks, size A, ...	"	.50
		Blue, Red, or Yellow, ...	"	.40

Miscellaneous — Chinese White, &c.

No. 36½.	Rowney's Liquid India Ink, ...	per bottle,	.30
No. 37.	Roberson's Chinese White, ...	per bottle,	.45
No. 37½.	E. Wolf & Son's Liquid Chinese India Ink, . .	per bottle,	.40
No. 38.	Schoenfeld's Chinese White, ...	per bottle,	.30
	" " "	per tube,	.25
No. 39.	Higgins' American Drawing Ink, General and Waterproof,	per bottle,	.25
	Higgins' American Drawing Ink, Blue, ...	per bottle,	.40
	Higgins' American Drawing Ink, Carmine, . . .	per bottle,	.50
No. 40.	Frost & Adams' Liquid India Ink, ...	per bottle,	.20
No. 40½.	Fancy Colored Inks, ...	per bottle, .10; per doz.	$1.00

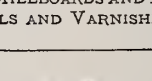
FROST & ADAMS' CATALOGUE.

SECTION II.

OIL COLORS,

COMPRISING

PREPARED OIL COLORS IN TUBES, FITTED BOXES OF OIL COLORS AND MATERIALS, ARTISTS' PREPARED CANVASS, PREPARED ACADEMY BOARDS AND PAPERS, PREPARED MILLBOARDS AND PANELS, OILS AND VARNISHES.

TRADE  MARK.

W. & N.

Winsor & Newton's Finely Prepared

Oil Colors in Collapsible Tubes.

Winsor & Newton have long paid special attention to the production and preparation of their Artists' Oil Colors, which have attained their present high reputation by possessing characteristic qualities, established by every variety of conclusive test.

The Pigments used are of the highest and purest quality. At the "North London Color Works," Winsor & Newton possess every facility and appliance for the production of manufactured colors, and the testing, purifying, &c., of natural ones.

Grinding Artists' Colors by machinery was first commenced by Winsor & Newton in 1840, special apparatus being invented by them for the purpose. Since that period still further improvements have been made; and at present there exists no machinery that for power and precision, combined with great cleanliness in working, can at all compare with that invented and perfected by Winsor & Newton for the grinding of their Artists' Oil Colors.

No mediums or admixtures are used in the preparation of these Colors, which, consequently, keep fresh and pure and ready for use, without reference to time or climate.

Briefly, therefore, it may be mentioned that the best and purest Pigments, most thoroughly ground in unadulterated Oil, form the ingredients of Winsor & Newton's Oil Colors, causing them to take the foremost rank, and to be used most extensively both at home and abroad.

Winsor & Newton's Finely Prepared

Oil Colors in Collapsible Tubes.

(Sizes of Tubes.)

4 INCH TUBE.

3 INCH TUBE.

2 INCH TUBE.

NOTE.—Double Tubes are twice the size, Treble three times the size, Quadruple four times the size, and Pound eight times the size of the 4 inch Tube above illustrated.

White is the only color imported by us in extra sized Tubes, unless expressly to order.

No. 41.	Double Flake, Silver or Cremnitz White, . . .	per tube,	.16
	Treble Flake, Silver or Cremnitz White, . . .	"	.24
	Quadruple Flake, Silver or Cremnitz White, . .	"	.32
	Pound Flake, Silver or Cremnitz White, . . .	"	.64

Winsor & Newton's Finely Prepared

Oil Colors in Collapsible Tubes.

No. 42. 8 CENTS PER TUBE.

Antwerp Blue	Cool Roman Ochre	Orpiment
Asphaltum	Copal Megilp	Oxford Ochre
Bitumen	Cork Black	Payne's Grey
Black Lead	Cremnitz White	Permanent Blue
Blanc d'Argent	Crimson Lake	Permanent White
Blue Black	Emerald Green	Persian Red
Bone Brown	Flake White	Prussian Blue
Brown Ochre	Gamboge	Prussian Brown
Brown Pink	Indian Lake	Purple Lake
Brown Red	Indian Red	Pyne's Megilp
Brilliant Yellow	Indigo	Raw Sienna
Burnt Roman Ochre	Italian Pink	Raw Umber
Burnt Sienna	Ivory Black	Roman Ochre
Burnt Terre Verte	King's Yellow	Sap Green
Burnt Umber	Lamp Black	Scarlet Chrome
Caledonian Brown	Light Red	Scarlet Lake
Cappah Brown	Magenta	Silver White
Cassel Earth	Mauve	Sugar of Lead
Chinese Blue	Mauve, No. 2	Terre Rosa
Chrome, Deep	Medium	Terre Verte
Chrome Green	Megilp	Trans. Gold Ochre
Chrome Green, Deep	Mummy	Vandyke Brown
Chrome Green, Light	Naples Yellow, Deep	Venetian Red
Chrome Green, Middle	Naples Yellow, Fr. Light	Verdigris
Chrome, Lemon	Neutral Tint	Verona Brown
Chrome, Orange	New Blue	Verte Peroquet
Chrome, Red	Nottingham White	Yellow Lake
Chrome, Yellow	Olive Lake	Yellow Ochre
Cologne Earth	Olive Tint	Zinc White

No. 43. 18 CENTS PER TUBE.

Brown Madder	Chinese Vermilion	Sepia
Burnt Lake	French Vermilion	Vermilion
Cerulean Blue	Geranium Lake	

No. 44. 28 CENTS PER TUBE.

Carmine No. 2	Madder Lake	Oxide of Chromium. Trans.
Citron Yellow	Malachite Green	
Cobalt Blue	Mars Brown	Pink Madder
Extract of Vermilion	Mars Red	Rembrandt's Madder
French Ultramarine	Mars Violet	Rose Madder
Fr. Veronese Green	Mars Yellow	Rubens' Madder
Indian Yellow, Imitation	Mineral Grey	Scarlet Vermilion
Lemon Yellow, Deep	Orange Vermilion	Strontian Yellow
Lemon Yellow, Pale	Oxide of Chromium	Viridian

No. 45. 40 CENTS PER TUBE.

Brilliant Ultramarine	Cadmium Yellow, Pale	Indian Yellow
Burnt Carmine	Carmine	Madder Carmine
Cadmium Orange	Ex. Malachite Green	Mars Orange
Cadmium Red	Field's Orange Vermil.	Purple Madder
Cadmium Yellow, Deep	Green Ultramarine	Violet Carmine

No. 46. 80 CENTS PER TUBE.

Aureolin	Orient Yellow	Ultramarine Ash

No. 46½. $1.40 PER TUBE.

Extra Madder Carmine — Extra Purple Madder

Tucker & Greene's Finely Prepared

Oil Colors in Collapsible Tubes.

	7 CENTS PER TUBE.	
American Vermilion	Emerald Green	Permanent Blue
Antwerp Blue	Flake White	Prussian Blue
Bitumen	Flesh Ochre	Purple Lake
Blue Black	Flesh Tint	Raw Sienna
Bone Brown	Gamboge	Raw Umber
Brown Ochre	Geranium Lake	Roman Ochre
Brown Pink	Gold Ochre	Roman Red
Burnt Sienna	Indian Red	Scarlet Lake
Burnt Terre Verte	Indigo	Silver White
Burnt Umber	Italian Pink	Terre Verte
Caledonian Brown	Ivory Black	Trans. Gold Ochre
Cappah Brown	Jaune Brilliant	Vandyke Brown
Cassel Earth	King's Yellow	Venetian Red
Chrome, Deep	Lamp Black	Verona Brown
Chrome Green, No. 1.	Light Red	Veronese Green
Chrome Green, No 2.	Mauve Lake	Yellow Lake
Chrome Green, No. 3.	Meglip	Yellow Ochre
Chrome, Orange	Mummy	Zinc White
Chrome, Yellow	Naples Yellow	Zinnober Green, Light
Cork Black	Naples Yellow, French	Zinnober Green, Medium
Cremnitz White	New Blue	Zinnober Green, Dark
Crimson Lake	Oxford Ochre	
	14 CENTS PER TUBE.	
Double Flake White	Double Cremnitz White	Double Silver White
	21 CENTS PER TUBE.	
Treble Flake White	Treble Cremnitz White	Treble Silver White
	28 CENTS PER TUBE.	
Quadruple Flake White	Quadrle CremnitzWhite	Quadruple Silver White
	56 CENTS PER TUBE.	
Pound Flake White	Pound Cremnitz White	Pound Silver White
	12 CENTS PER TUBE.	
Cerulean Blue	English Vermilion	Ultramarine Yellow
Chinese Vermilion	French Vermilion	Violet
Citron Yellow	Marine Vermilion	
	20 CENTS PER TUBE.	
Brown Madder	Malachite Green	Rose Madder
Madder Lake	Pink Madder	
	22 CENTS PER TUBE.	
Cadmium Yellow, Pale	French Ultramarine	Orange Vermilion
Cadmium Yellow, Deep	Lemon Yellow, Deep	Ruben's Madder
Cadmium Yellow, Orange	Lemon Yellow, Pale	Scarlet Vermilion
Carmine	Madder Lake	Strontian Yellow
Carmine Paste	Malachite Green	Veronese Green
Cobalt Blue	Mars Violet	Vert Emeraude
Extract Vermilion	Mars Yellow	
	32 CENTS PER TUBE.	
Brilliant Ultramarine	Orient Carmine	Purple Madder
	Violet Carmine	
	40 CENTS PER TUBE.	
Burnt Carmine	Indian Yellow	Madder Carmine
	Purple Carmine	

Dr. Fr. Schoenfeld & Co.'s

Celebrated German Oil Colors.

10 CENTS EACH.

Antwerp Blue
Asphaltum
Bitumen
Blue Black
Bone Black
Bone Brown
Brown Ochre
Brown Pink
Brown Red
Burnt Brown Ochre
Burnt Dark Ochre
Burnt Gold Ochre
Burnt Roman Ochre
Burnt Yellow Ochre
Burut Sienna
Burnt Sienna, No. 2, deep
Burnt Terre Verte
Burnt Umber
Brilliant Yellow, deep
Brilliant Yellow, light
Caledonian Brown
Cappah Brown
Caput Mortum, deep
Caput Mortum, light
Cassel Earth
Chrome Green, No. 1
Chrome Green, No. 2
Chrome Yellow, deep
Chrome Yellow, light
Chrome Yellow, medium
Chrome Yellow, orange
Cologne Earth
Cork Black
Cremnitz White
Crimson Lake
Dark English Red
Dark Ochre
Flesh Ochre
Gold Ochre
Half Burnt Light Ochre
Indian Red, dark
Indian Red, light
Indigo
Ivory Black
Lamp Black
Light Red
Light English Red
Massicot (Yellow)
Maugau Brown
Mineral Blue
Mineral Green
Mineral Yellow
Morellen Salt (Red)
Mummy
Munich Lake
Naples Red
Naples Yellow, deep
Naples Yellow, light
Naples Yellow, greenish
Naples Yellow, reddish
New Blue
Rue Ochre
Permanent Blue
Permanent Green, deep
Permanent Green, light
Permanent Green, medium
Persian Red
Prussian Blue
Prussian Brown
Raw Sienna
Raw Umber
Red Oxide of Iron
Roman Brown
Roman Ochre
Satinober
Scarlet Lake
Schnttgelb
Silver White
Terre Verte
Terre Verte, Veronese
Turkey Red
Vandyke Brown
Velvet Black
Venetian Red
Verdigris
Zinnober, Dunkel
Zinnober, Gelb
Zinnober, Heilgruner
Yellow Ochre, No. 1
Yellow Oohre, No. 2
Yellow of Gold
Zinc Yellow
Zinc White

25 CENTS EACH.

Brussels Brown
Cobalt Blue, light
Japan Red
Japan Yellow
Lemon Yellow
Pigment
Saturn Red
Sepia
Ultramarine, light
Ultramarine, Yellow
Vienna Red

30 CENTS EACH.

Azure Blue
Brown Pink, dark
Brown Pink, greenish
Celestial Blue
Chinese Vermilion
Cobalt Blue, deep
Cobalt, deep
Green Lake, deep
Green Lake, light
Kronberg's Green
Madder Brown
Madder Lake, No. 1
Madder Lake, No. 2 (rose)
Madder Lake, No. 3 (deep rose)
Madder Lake, No. 4 (pink)
Madder Lake, No. 5
Mars Orange
Mars Yellow
Oxide of Chromium, blue-green
Oxide of Chromium, green-blue
Patent Vermilion, deep
Robert Lake, No. 1
Robert Lake, No. 2
Robert Lake, No. 3
Robert Lake, No. 4
Scarlet Vermilion
Ultramarine Blue, deep
Ultramarine Green
Venetian White, double
Vermilion, light (carmine)
Whites, double size

40 CENTS EACH.

Cadmium (lemon), No. 1
Cadmium, No. 2
Cadmium, No. 3
Cadmium, No. 4
Cadmium, No. 5
Cadmium, red
Turkish Blue
Vandyke Red
Violet Lake
Whites, triple size

45 CENTS EACH.

Indian Yellow
Madder Lake, No. 6, deep

50 CENTS EACH.

Carmine
Carmine, burnt
Emeraudo Green
Madder, No. 7
Madder, No. 8
Madder Carmine
Madder Lake, burnt
(Purplo Madder)
Malachite Green
Mauve
Violet Carmine

75 EACH. - Ultramarine Ash

Edouard's Celebrated French Oil Colors.

15 CENTS EACH.

Bistre
Bitumen
Bone Brown
Bright Yellow
Brown Ochre
Burnt Gold Ochre
Burnt Italian Earth
Burnt Sienna
Burnt Umber
Cassell Earth
Chrome Yellow, deep
Chrome Yellow, light
Cologne Earth
Cork Black
Cormayeux Yellow
Gold Ochre
Ivory Black
Massicot
Mineral Blue
Mineral Green
Mummy
Naples Yellow
Naples Yellow, light
Ocre de Rue
Paul Veronese Green
Peach Black
Prussian Blue
Raw Italian Earth
Raw Sienna
Raw Umber
Red Brown
Roman Yellow
Roman Yellow Ochre
Schiele's Green
Vandyke Brown
Vandyke Red
Venetian Red
Veronese Terre Verte
Yellow Ochre
Yellow Weld Lake
Zinc Yellow
Zinnober Green, dark
Zinnober Green, light
Ordinary Lake

20 CENTS EACH.

Candle Black
Indian Red
Indigo
Pouzzole Red
White Lead

25 CENTS EACH.

Silver White
Zinc White

30 CENTS EACH.

Brussels Brown
English Brown Pink
Iron Brown
Mars Orange
Mars Red
Mars Yellow
Robert Lake, Nos. 5,6,7,8
Strontian Yellow

35 CENTS EACH.

Burnt Lake
Fine Carmine Lake
Florence Brown
French Vermilion
Roman Orange Lake

50 CENTS EACH.

Antimony Yellow
Capuchin Yellow Lake
Celestial Cobalt Blue
Chinese Vermilion
Cobalt Blue
Dark Brown Madder Lake
Dresden Cobalt Blue
Emerald Green
English Lake
English Vermilion
Green Ultramarine
Guinlet's Ultramarine, No. 1
Indian Yellow
Madder Lake, No. 1
Madeira Brown
Mars Violet
Pinart Yellow, Nos. 1, 2, 3
Rose Madder Lake
Vermilion, No. 1
Yellow Brown Madder Lake

55 CENTS EACH.

Cobalt Green
Guinlet's Ultramarine, extra fine
Light Cobalt Green
Malachite Green
Purple Madder Lake
Superfine Carmine

$1.00 EACH.

Citron Cadmium Yellow
Dark Cadmium Yellow
Light Cadmium Yellow
Ultramarine Ash, No. 1
Violet Cobalt

$4.50 EACH. Genuine Ultramarine

Lacroix's

Enamel Colors in Collapsible Tubes,

For Painting on Glazed China or Tiles.

The singular interest that has been excited in late years in the subject of Pottery is at this time bearing remarkable fruit in the shape of a widespread effort to produce forms, and surface decoration on forms, that shall rival those done in such old times as are regarded as being peculiarly rich in artistic light and insight. The rivals to the ancient works are seen daily in increasing numbers and in varying beauty, and of most diverse colors and characters. Scarcely a month now passes but some addition is made to the number of wares decorated by new methods, which take the impress of the individual minds that have invented them.

This interest which has heretofore been confined principally to European Countries is now gaining with us, and people of refined culture are giving much attention to this truly beautiful art. On account of this interest a demand has been created for Lacroix's Colors, so extensively used in China and Tile painting, and to meet this demand we have imported from the manufacturer a full assortment which we offer in separate tubes or neatly arranged in boxes.

(Size of Tube.)

Lacroix's Tube Colors.

		Per Tube.
No. 49.	Chinese White (*Blanc Chinois*),	.20
	Permanent White (*Blanc fixe*),	.18
	Blue No. 29 (*Bleu No. 29*), special for Earthenware, unfit for China,	.25
	Sky Blue (*Bleu ciel*),	.20
	Light Sky Blue (*Bleu ciel clair*),	.20
	Dark Blue (*Bleu fonce*),	.18

		Per Tube.
No. 49.	Common Blue (*Bleu ordinaire*),	.18
	Deep Ultramarine (*Bleu outremer riche*),	.30
	Deep Blue (*Bleu riche*),	.20
	Brown No. 3 (*Brun 3 bitume*),	.20
	Brown No. 4 (*Brun 4 fonce*),	.20
	Yellow Brown (*Brun jaune*),	.20
	M. Brown (*Brun M.*),	.20
	Deep Red-Brown (*Brun rouge riche*),	.20
	Sepia (*Sepia*),	.20
	Light Carmine A. (*Carmin tendre A.*),	.20
	Light Carmine No. 1 (*Carmin tendre No. 1*),	.20
	Carmine No. 2 (*Carmin No. 2*),	.25
	Deep Carmine No. 3 (*Carmin No. 3 fonce*),	.30
	Flux (*Fondant general*),	.18
	Grey No. 1, light (*Gris No. 1 tendre*),	.20
	Grey No. 2 (*Gris No. 2*),	.20
	Pearl Grey No. 6 (*Gris No. 6 perle*),	.30
	Neutral Grey (*Gris noir*),	.20
	Platina Grey (*Gris de platine*),	1.75
	Reddish Grey (*Gris roux*),	.20
	Silver Yellow (*Jaune d'argent*),	.18
	Ivory Yellow (*Jaune d'ivoire*),	.20
	Jonquil Yellow (*Jaune jonquille*),	.18
	Yellow for mixing (*Jaune a meler*),	.18
	Orange Yellow (*Jaune orange*),	.18
	Crimson Lake (*Laque Carminee*),	.80
	Raven Black (*Noir corbeau*),	.20
	Ivory Black (*Noir d'ivoire*),	.18
	Dark Ochre (*Ocre fonce*),	.18
	Yellow Ochre (*Ocre*),	.20
	Purple No. 2 (*Pourpre No. 2*),	.45
	Crimson-Purple (*Pourpre cramoisi*),	.60
	Deep Purple (*Pourpre riche*),	.50
	Ruby Purple (*Pourpre rubis*),	.70
	Relief (*Relief*),	.20
	Capucine Red (*Rouge capucine*),	.20
	Flesh No. 1 (*Rouge chair No. 1*),	.20
	Flesh No. 2 (*Rouge chair No. 2*),	.20
	Flesh, Deep (*Rouge chair fonce*),	.20
	Laky Red (*Rouge laqueux*),	.25
	Orange Red (*Rouge orange*),	.25
	Grass Green No. 5 (*Vert No. 5 pre*),	.20
	Brown Green No. 6 (*Vert No. 6 brun*),	.20
	Dark Green No. 7 (*Vert No. 7 noir*),	.20
	Green No. 36 T (*Vert No. 36 T*),	.20
	Deep Blue-Green (*Vert bleu riche*),	.30
	Chrome Green 3 B (*Vert chrome 3 B*),	.20
	Deep Chrome Green (*Vert chrome riche*),	.20
	Emerald-Stone Green (*Vert emeraude*),	.20
	Green H 24 (*Vert H 24*),	.20
	Apple Green (*Vert pomme*),	.18
	Deep Green (*Vert Russe*),	.20
	Violet of Iron (*Violet de fer*),	.20
	Grey Violet of Iron (*Violet de fer teinte grise*),	.20
	Light Violet of Gold (*Violet d'or clair*),	.32
	Deep Violet of Gold (*Violet d'or fonce*),	.42
	Marine Blue (*Bleu Marin*), Ground Color,	.30
	Light Brown (*Brun clair*),	.20
	Dark Brown (*Brun fonce*),	.20

Lacroix's

Colors for Grounds on Glazed China,

In Tubes, like the foregoing.

These will not bear mixing, and are available for Grounds only.

		Per Tube.
No. 50.	Celestial Blue (*Blue Celeste*),	.25
	Indian Blue (*Bleu Indien*),	.30
	Lavender Blue (*Bleu lavande*),	.18
	Golden Brown (*Brun mordore*),	.20
	Light Coffee (*Cafe au lait*),	.18
	Carmelite (*Carmelite*),	.18
	Caladon (*Celadon*),	.20
	Chamois (*Chamois*),	.18
	Coral (*Corail*),	.18
	Isabelle (*Isabelle*),	.18
	Chinese Yellow (*Jaune Chinois*),	.18
	Fusible Lilac (*Lilas fusible*),	.20
	Maize (*Mais*),	.20
	Mauve (*Mauve*),	.22
	Pompadour Pink (*Rose Pompadour*),	.32
	Steel Grey (*Gris d'acier*),	.20
	Turtle Dove Grey (*Gris Tourterelle*),	.20
	Salmon (*Saumon*),	.20
	Turquoise Blue (*Turquoise Bleu*),	.30
	Turquoise Green (*Turquoise Vert*),	.20
	Green for Grounds (*Vert pour fonds*),	.20
	Copper Water Green (*Vert d'eau au cuivre*),	.18
	Chromium Water Green (*Vert d'eau au chrome*),	.18

Lacroix's

Colors for Painting Under Glaze on Biscuit,

In Tubes, like the foregoing.

		Per Tube.
No. 51.	King's Blue (*Bleu de roi*),	.30
	Violet Blue (*Bleu violace*),	.30
	Yellow Brown (*Brun jaune*),	.30
	Platina Grey (*Gris de platine*),	1.75
	Light Yellow (*Jaune clair*),	.25
	Deep Yellow (*Jaune fonce*),	.25
	Dark Yellow (*Jaune obscur*),	.25
	Gold Yellow (*Jaune d'or*),	.50
	Manganese (*Manganese*),	.30
	Maroon (*Marron*),	.30
	Black (*Noir*),	.25
	Iridium Black (*Noir d'iridium*),	1.75
	Orange (*Orange*),	.30
	Pink (*Rose*),	.40
	T Red (*Rouge T*),	.30
	Deep Green No. 1 (*Vert fonce No. 1*),	.35
	Light Green (*Vert tendre*),	.30
	No. 1 Violet (*Violet No. 1*),	.30
	No. 2 Violet (*Violet No. 2*),	.30

China Palette for Painting on China.

No. 52. Size, 6 in. by 4, with 24 small recesses for holding colors, enclosed in Japanned Tin Case, with Protector Flap and Glass Slab, very useful for keeping the colors clean, ... $2.50
The Palette only, ... 1.50
Palette, with 18 recesses and slant, with Cover, ...90

Lacroix's Colors in Boxes.

No. 53. Wooden Box, containing 18 Colors, Brushes, Palette Knife, etc., . $7.00
Wooden Lock-Box, containing 18 small and 9 large Tubes of Colors, Brushes, Palette Knife, Scraper, etc., ... 13.00
Japanned Tin Box, containing 20 Colors, Brushes, Palette Knife, etc., ... 9.00
Japanned Tin Box, containing 28 Colors, Brushes, Palette Knife, etc., ... 10.50

Oils for Lacroix's Colors.

No. 54. Oil of Turpentine, ... per bottle, .35
Oil of Lavender, ... " .35
Oil of Cloves, ... " 1.00
Fat Oil, of Turpentine and Lavender, ... " .35 and .75
Tinting Oil, ... " .30

Sundries.

No. 55. Hand-Book on China Painting, by M. Louise McLaughlin, ...75
No. 55½. Hand-Book on Pottery Painting, by M. Louise McLaughlin, . . $1.00
No. 55¾. Suggestions to China Painting, ... $1.00
No. 56. Hand-Book on China Painting, by John C. L. Sparks, ...45
No. 56¼. China Painting, by Florence Lewis, with 16 colored plates, . $2.50
No. 56½. A Guide to Porcelain Painting, by S. T. Whitford, . . . $1.00
No. 56¾. Hints for China and Tile Decorators, ...50

Suitable Brushes, for Tile Painting, in great variety. See Section 3.
Prepared Gold, for Tile Painting. Tiles, for China Painting. See Section 8.

Japanned Tin

Sketching Boxes of Oil Colors and Materials.

Fitted Complete to order.

JAPANNED TIN SKETCH BOX WITH FITTINGS.

No. 57.

The prices of these Boxes vary, according to the Fittings, from $8.00 to $15.00, and upwards

Pupil's Complete Sketch Box.

No. 57½. Japanned Box, 3¾ × 8, Palette to fit box, 12 Colors, 4 Brushes, 1 Palette Knife, ... $2.25

For Empty Japanned Tin Sketching Boxes, see "JAPANNED WARE," Section 6.

Winsor & Newton's

Artists' Prepared Canvas.

The finest and best British made Canvas of Pure Flax, and the purest color and materials only, are used by Winsor & Newton in the production of their Artists' Prepared Canvas.

The superior method of manufacture adopted by Winsor & Newton materially enhances the quality of their Artists' Canvas. It is dried naturally and without the aid of artificial means; and the adhesion of the surface of preparation to the ground of raw Canvas is so intimate and thorough, as to preclude the possibility of its peeling up or becoming detached in any way.

Winsor & Newton's Artists' Prepared Canvas is firm, solid and strong; will bear rolling; and is warranted to keep any length of time, and in any climate without cracking.

Winsor & Newton's

Prepared Canvas for Oil Painting.

In Rolls of Six Yards.

No. 58.		Smooth or Roman.	Twilled.
27 inches wide,	per yard,	$1.16	$1.40
30 "	"	1.25	1.60
36 "	"	1.40	1.80
38 "	"	1.55	2.00
42 "	"	1.68	2.25
45 "	"	2.10	2.55
54 "	"	2.75	3.30
62 "	"	3.25	3.50
74 "	per roll,	23.50	32.00
86 "	"	27.00	33.00

Single Prime and Absorbent Canvas same price as Smooth. Hessian same price as Roman. Extra Widths imported to order.

French Canvas.

No. 59.	1 meter (40 inches) wide,			Fine,	per yard,	$3.00
	1 "	"	"	Ordinary,	"	1.50
	1 "	"	"	Best Ordinary,	"	1.80
	2 "	(80 inches),	"	Fine Twilled,	"	7.00
	2 "	"	"	Heavy Twilled,	"	7.00
	2 "	"	"	Best Ordinary,	"	4.00

Best American Canvas.

No. 60.

27 inches,	$1.00	36 inches,	$1.25	45 inches,	$1.90
30 "	1.12	42 "	1.40		

German Canvas furnished to order. Canvas for Sketching, see APPENDIX.

Winsor & Newton's

Prepared Canvas Mounted on Stretchers.

Portrait Sizes.

No. 61.	Smooth or Roman.	Twilled.		Smooth or Roman.	Twilled.
6 x. 8 inches,	.35	.45	22 × 27 inches,	$1.25	$1.65
8 × 10 "	.35	.45	22 × 30 "	1.35	1.70
10 × 12 "	.40	.55	25 × 30 "	1.40	1.90
12 × 14 "	.55	.70	29 × 36 "	2.00	2.50
14 × 18 "	.75	.95	30 × 40 "	2.70	3.15
16 × 20 "	.85	1.10	36 × 42 "	2.80	3.65
17 × 21 "	.95	1.15	34 × 44 "	2.95	3.65
20 × 24 "	1.15	1.45	40 × 50 "	3.80	4.75

Landscape Sizes.

No. 62.	Smooth or Roman.	Twilled.		Smooth or Roman.	Twilled.
6 × 9 inches,	.35	.45	18 × 24 inches,	$1.05	$1.25
9 × 12 "	.35	.45	18 × 30 "	1.10	1.40
9 × 13 "	.40	.50	20 × 27 "	1.20	1.45
10 × 14 "	.45	.60	20 × 30 "	1.30	1.60
10 × 16 "	.50	.60	24 × 34 "	1.55	2.00
11 × 15 "	.55	.70	27 × 34 "	1.65	2.20
12 × 15 "	.60	.75	24 × 36 "	1.80	2.25
12 × 16 "	.60	.75	26 × 36 "	1.90	2.30
12 × 18 "	.65	.90	28 × 48 "	2.75	3.60
12 × 20 "	.70	.90	30 × 42 "	2.75	3.25
14 × 17 "	.70	.95	30 × 44 "	2.85	3.50
14 × 20 "	.75	1.00	26 × 42 "	2.20	2.75
16 × 22 "	.85	1.10	34 × 60 "	4.00	5.60
16 × 24 "	.90	1.15	40 × 54 "	3.90	5.00

Panel Sizes.

No. 62½.					
6 × 12 inches, .	.35	10 × 22 inches, .	.75	14 × 60 inches, .	$2.55
7 × 12 " .	.35	10 × 24 " .	.80	18 × 48 " .	2.60
8 × 16 " .	.50	12 × 24 " .	.85	16 × 50 " .	2.45
8 × 18 " .	.55	15 × 27 " .	1.05	16 × 60 " .	2.60
8 × 20 " .	.65	17 × 25 " .	1.05	18 × 50 " .	2.60
9 × 17 " .	.55	6 × 18 " .	.50	18 × 60 " .	2.75
9 × 20 " .	.65	12 × 30 " .	1.00	16 × 42 " .	2.25
10 × 20 " .	.70	14 × 40 " .	1.70		

NOTE.—Special and irregular sizes made and stretched to order with promptness.

French Canvas of the above sizes stretched to order at short notice in the most workmanlike manner. Ordinary French Canvas same price as Winsor & Newton's Smooth. Best Ordinary, and Fine French higher than Winsor & Newton's Smooth. Paintings on Canvas cut down and re-stretched by experienced workmen.

Canvas Pliers, for Stretching Canvas.

No. 1, . . . $1.75 | No. 2, . . . $2.00 | No. 3, . . . $2.25

Square Stretchers, Without Canvas.

No. 63. Sizes like the above Stretched Canvases, ranging from

6 × 8 to 18 × 24 .	each,	.20	30 × 44 to 36 × 44 .	each,	.60
18 × 26 to 22 × 30 .	"	.25	40 × 50	"	.75
25 × 30 to 24 × 36 .	"	.30	40 × 54 . .	"	.80
27 × 34 to 29 × 36 .	"	.40	34 × 60 . .		80
26 × 42 to 30 × 40 .	"	45			

Bars will be supplied, or Odd Sized Stretchers made, at an additional cost, and at short notice.

Oval Stretchers, Without Canvas.

No. 64.

8 × 8 to 10 × 14	each,	.38	18 × 20 to 17 × 21	each,	.63
12 × 14 to 12 × 16	"	.45	18 × 24 to 20 × 24	"	.68
12 × 18 to 14 × 20	"	.55	22 × 27 to 25 × 30	"	.75

Winsor & Newton's Superior Panels,

Prepared on perfectly well seasoned Mahogany.

No. 65.

6 × 8 inches,	.50	9 × 12 inches,	$1.10
7 × 9 "	.60	9 × 13 "	1.25
7 × 10 "	.70	9 × 14 "	1.30
8 × 10 "	.80	10 × 12 "	1.20
8 × 12 "	.95	10 × 14 "	1.50
8 × 13 "	1.05	10 × 13 "	1.40

American Panels for Oil Painting,

No. 66. Of Mahogany or Cherry-Wood, with Natural Surface.

6 × 8 inches,	.15	9 × 14 inches,	.40
7 × 9 "	.20	10 × 12 "	.40
7 × 10 "	.23	10 × 14 "	.45
8 × 10 "	.25	10 × 15 "	.50
8 × 12 "	.33	12 × 18 "	.75
9 × 12 "	.35	12 × 20 "	.80

Whitewood Panels.

Ebonized and Polished.

No. 67.

4 × 8 inches,	.50	6 × 18 inches	.85	11 × 22 inches,	$1.65
5 × 10 "	.50	8 × 14 "	.85	12 × 20 "	1.75
6 × 10 "	.50	8 × 18 "	1.00	12 × 24 "	1.75
5 × 12 "	.55	7½ × 18 "	1.00	14 × 20 "	1.90
6 × 12 "	.60	8 × 18 "	1.00	14 × 24 "	2.00
8 × 14 "	.65	8 × 20 "	1.00	14 × 29 "	2.50
6 × 16 "	.75	9 × 18 "	1.10	16 × 20 "	2.25
8 × 12 "	.75	9 × 20 "	1.20	15 × 22 "	2.75
7 × 14 "	.75	10 × 20 "	1.25	12 × 28 "	2.75
7 × 15 "	.80	10 × 24 "	1.50	13 × 32 "	3.00

Thick Card-Board Panels,

With Gilt, Beveled Edges.

Black, Grey, Pink, or Rich Maroon, suitable for Water or Oil Color Painting.

No. 68.

2¾ × 4¼ inches,	.06	5 × 10 inches,	.15
4 × 6½ "	.10	6 × 12 "	.20
4 × 8 "	.12	7 × 14 "	.25

Thin Panels, Circles, Ovals and Crescents, in assorted colors.

Winsor & Newton's Prepared Millboards.

No. 69.

6 × 5 inches,	.20	14 × 9 inches,	.50
7 × 5 "	.20	14 × 10 "	.60
8 × 6 "	.25	14 × 12 "	.65
9 × 6 "	.25	15 × 11 "	.65
9 × 7 "	.30	15 × 12 "	.70
9 × 8 "	.30	16 × 11 "	.70
10 × 7 "	.33	16 × 12 "	.75
10 × 8 "	.33	17 × 12 "	.80
11 × 8 "	.35	17 × 13 "	.85
11 × 9 "	.40	17 × 14 "	.90
12 × 8 "	.40	18 × 12 "	.95
12 × 9 "	.45	18 × 13 "	1.00
12 × 10 "	.45	18 × 14 "	1.00
13 × 8 "	.45	19 × 12 "	1.00
13 × 9 "	.45	19 × 13 "	1.00
13 × 10 "	.50	19 × 14 "	1.05
13 × 11 "	.50	14 × 20 "	1.10

Winsor & Newton's

Academy or Sketching Boards.

No. 70.

12¼ × 18½ inches,	.20	18½ × 24½ inches,	.38

Small sizes cut without extra charge. Am. Academy Boards, see APPENDIX.

Prepared Oil Sketching Paper.

Winsor & Newton's.

No. 71.

Thin, 21 × 30 inches,	.25	Thick, 21 × 30 inches,	.45

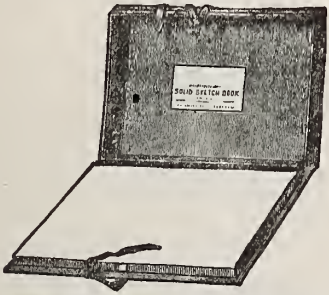
American Board and Paper at various prices, according to size and quality.

Frost & Adams'.

Smooth, 22 × 30 inches,	.25	Stippled, 22 × 30 inches,	.25
Canvas Grain, 22 × 30 inches,	.25		

Tablets for Sketching in Oil,

Made of Winsor & Newton's Prepared Paper.



These Tablets are made on the principle of the Solid Blocks, and composed of Prepared Oil Sketching Paper. They have protective frames (as illustrated) which fit over the Tablets and protect the wet sketches.

No. 72.

Sizes.		Blocks Only.	Solid Books.
16mo, Imperial,	5 × 7 inches,	.75	$1.50
8vo, "	7 × 10 "	1.25	2.50
4to, "	10 × 14 "	1.75	3.50

Extra will be charged for Tin Frame.

Oils.

2 oz. Round Glass Bottles.

No. 73.	Winsor & Newton's	Nut Oil,	.25
"	"	Poppy Oil,	.25
"	"	Linseed Oil,	.20
"	"	Strong Drying Oil,	.25
"	"	Pale "	.25

No. 74.	Holt's Clarified Drying Oil,	.20
	Light or Pale "	.20
	Deep or Strong "	.20
	Linseed Oil,	.15
	French Nut Oil,	.20
	" Poppy Oil,	.20
	Edouard's Mixtion,	.15

New Preparations for Painting on Silk and Satin.

No. 74½.

Adolzi Medium,	.60	Silk Oil,	.25
Oleo Excelsior,	.35	Decoline,	.25

Varnishes.

2 oz. Round Glass Bottles.

No. 75.	Winsor & Newton's Strong Mastic Varnish,	.90
	" " Picture " "	.75
	" " Picture Copal "	.40
	" " Crystal "	.35
No. 76.	Retouching Varnish,	.25
	French Retouching Varnish, (1 oz. square bottles,)	.30
	Grecian Varnish,	.25
	Picture "	.25
	Extra Picture Varnish,	.35
	Copal "	.25
	Extra Copal "	.35
	Mastic "	.50
	White Damar "	.20
	White Lac "	.25
	Roberson's Medium, Small,	.20
	" " Medium,	.40
	" " Large,	.75
	Amber Enamel, large,	.50
	" " small,	.25

Siccatif.

No. 77.	Siccatif de Harlem, 1 flacon,	$1.00
	" " ½ "	.50
	Siccatif de Courtray, per bottle,	.25

FROST & ADAMS' CATALOGUE.

SECTION III.

BRUSHES.

FOR

WATER AND OIL COLOR PAINTING.

Winsor & Newton's Finest Brown or Red Sable Brushes, in Quills,

For Water Color Painting.

(Size of Brushes.)

No. 78.	Crow Quill,	25
	Duck "	37

No. 78.	Small Goose Quill,	45
	Goose Quill,	63
	Extra Goose Quill,	85
	Extra Small Swan Quill,	2.50
	Small "	3.15
	Middle "	3.75
	Large "	4.37

NOTE.—These Brushes are made of the finest unadulterated hair, and are man ufactured by skilled workmen, on Messrs. Winsor & Newton's premises Rowneys' Sables in Quills about 10 per cent. less.

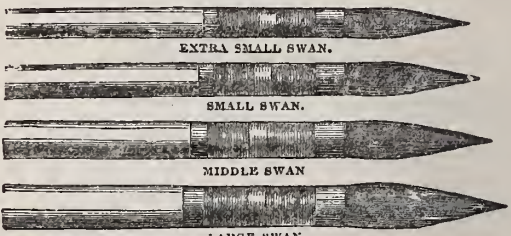
Winsor & Newton's Fine Siberian Hair Brushes, in Quills.

Tied with Silver Wire.

For Illustrations, see page 42.

No. 79.	Large Swan Quill,	.88
	Middle "	.60
	Small "	.40
	Extra Small Swan Quill,	.25

French Siberian Hair Brushes, in Quills.



(Size of Brushes.)

No. 80.	Extra Small Swan Quill,	20
	Small "	30
	Middle "	.40
	Large "	50

French Sable and Camel Hair Brushes, in Quills

No. 81.	French Red Sables in Quills. 1 to 8, each,	.20 to .40

No. 82. French Camel Hair in Quills, 1 to 8, Tied with Gilt String, first quality, each, ...05 to .10
Ditto, second quality, ...03 to .05

French Writing and Striping Pencils, in Quills.

WRITERS.

STRIPERS.

No. 83. Black and Red Sable Writing and Striping Pencils, a very complete assortment, various lengths and sizes, each, . . .10 to .60

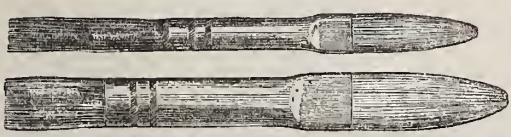
No. 84. Camel Hair Writing and Striping Pencils, a fine assortment, from ½ inch to 2½ inches in length; superior quality, each, . .05 to .10

Siberian Ox Hair Stripers.

No. 85. 1, 1¼, 1½, and 2 inch, each, ...10 to .60

Superior Brush for Fresco and Carriage Painters.

Lyons' Hair Water Color Brushes.



LYONS' HAIR BRUSHES. (Size of Nos. 2 and 5.)

No. 86. Nos. 1 to 6, each, ...35

Winsor & Newton's Finest Brown or Red Water Color Sables, in Albata.

ROUND, AND FLAT WATER COLOR SABLES, IN ALBATA. (Size of Brushes.)

No. 87.

No. 0 size,	.35	No. 4 size,	.65
1 "	.35	5 "	.75
2 "	.45	6 "	.90
3 "	.55	7 "	1.25

NOTE.—The above Brushes have *Ebony* Handles, and are marked with *three* nerls on their *Albata* Ferrules.

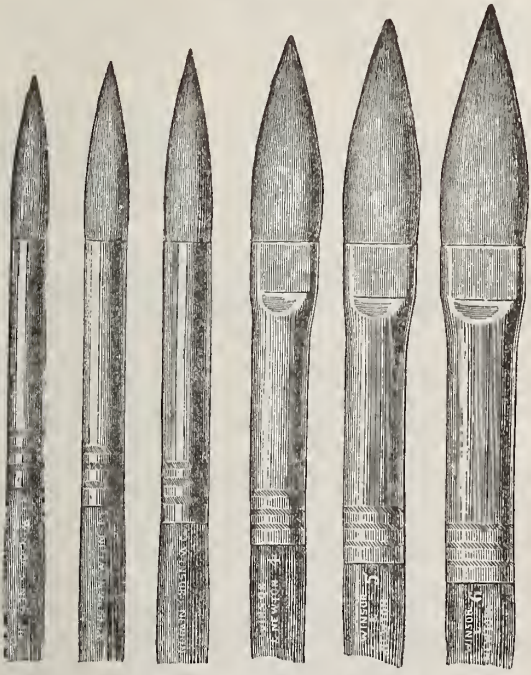
French Brown and Red Water Color Sables,

Black Polished Handles, Plated Ferrules.

No. 88. Red.		Brown.	
No. 0 size,	.18	No. 0 size,	.18
1 "	.20	1 "	.20
2 "	.25	2 "	.25
3 "	.30	3 "	.30
4 "	.35	4 "	.35
5 "	.40	5 "	.40
6 "	.45	6 "	.45
7 "	.60	7 "	.60

Winsor & Newton's Finest Brown or Red Water Color Sables, in Albata.

Extra Large Series.



ROUND AND FLAT SABLES IN ALBATA.—EXTRA LARGE SERIES. (Size of Brushes.)

No. 89.

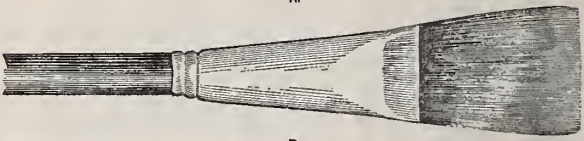
No. 1 size, Round,	. . .	$2.15	No. 1 size, Flat, ... $2.15
2 " "	. . .	3.15	2 " " 3.15
3 " "	. . .	4.10	3 " " . . . 4.10
4 " "	. . .	5.15	4 " " 5.15
5 " "	. . .	6.25	5 " " 6.25
6 " "	. .	7.25	6 " " 7.25

Nos. 4, 5 and 6 made in Brown Sable only.

NOTE.—The above Brushes have *Ebony* Handles, and are marked with *three* neris on their *Albata* Ferrules.

Winsor & Newton's Sky or Wash Brushes for Water Color Painting.

A.



B.

C.

No. 90.	A.	Round, Wire Bound, Siberian Hair,	$1.00
	B.	Flat, Dyed Sables, in Tin,	1.50
	C.	Round, Dyed Sables, in Tin,	1.50

Pocket Sketch Brushes, for Water Color Painting.

These Brushes are made so they may be carried in the pocket without detriment to the point, and are very convenient for out-door sketching.

No. 91.	Winsor & Newton's Large Size Finest Brown Sable, in Albata,	$3.45
	" " Small " " " "	2.75
	French Siberian Hair, in Plated Metal,	.38

French Camel Hair Brushes, in Tin, for Water Color Painting,

Tinting or Lacquering.

No. 92.	6 sizes, Round,	each,	.12 to .20
	6 " Flat	"	.12 to .20
	Double Enders, brush at either end,	"	.30

French Siberian Tinting Brushes, Plated Ferrules,

For Architects' and Engineers' Use.

(Size of No. 8.)

No. 93.	12 sizes, Round,	each,	.10 to .30
	Double Enders, brush at either end,	"	.30 to .60

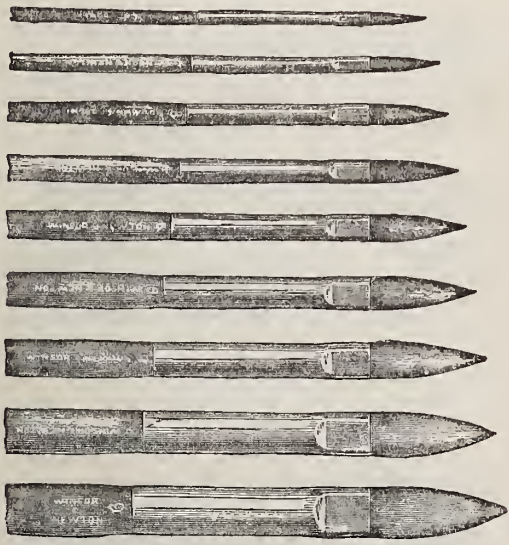
French Split Quill Camel Hair Brushes,

For Gilders.

No. 94.	2 Quill, Round Domed or Square Point,	.11
	3 " " " "	.16
	4 " " " "	.21
	5 " " " "	.27
	6 " " " "	.33

Winsor & Newton's Red Sables, in Tin, for Oil Painting.

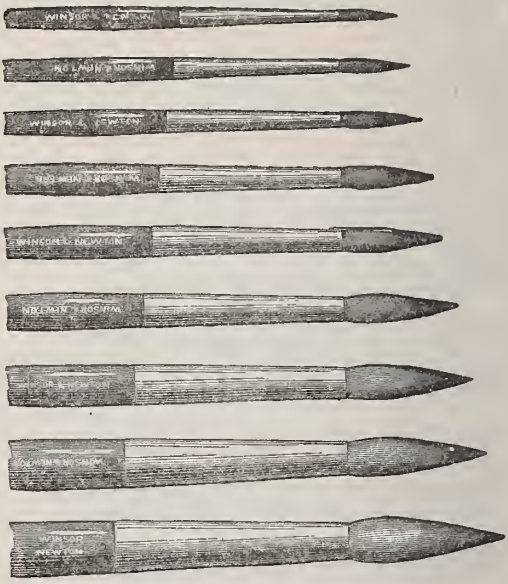
Polished Cedar Handles.



FLAT RED SABLES IN TIN. (Size of Brushes.)

No. 95.

No. 1 size,	.18	No. 7 size,	.80
2 "	.25	8 "	.90
3 "	.30	9 "	1.05
4 "	.35	10 "	1.25
5 "	.40		
6 "	.50		



ROUND RED SABLES, IN TIN. (Size of Brushes.)

No. 96.

Prices of Winsor & Newton's Round Red Sables, in Tin, same as Flat Red Sables, in Tin, page 48. Prices of 00 and 0, in series Nos. 95, 96 and 97, .24.

Winsor & Newton's Fine Sable "Rigger" Brushes, in Tin,

For Delicate Work, Fine Line Drawing, &c.

SABLE "RIGGER" BRUSHES, IN TIN. (Size of Nos. 0, 2, and 4.)

No. 97.

Nos. 000 to 6. Prices same as those of Round Red Sables, in Tin, above described.

AVERY LIBRARY
COLUMBIA

Winsor & Newton's Fine Sable "Fan" Brushes, in Tin,

For Light Glazing, Softening, Scumbling, Hair, Foliage, &c.

SABLE "FAN" BRUSH, IN TIN. (Size of No. 6.)

No. 98.

No. 1,	.50	No. 3,	.55	No. 5,	.60
" 2,	.55	" 4,	.60	" 6,	.65

Winsor & Newton's Fine Sable "Bright's" Brushes, in Tin,

For Firm Square Touching, and General Landscape Work.

SABLE "BRIGHT'S" BRUSHES, IN TIN. (Size of Nos. 3 and 6.)

No. 99.

Sizes (in point of width) and Prices same as those of Flat Red Sables, in Tin. (See page 48.)

Frost & Adams' Round and Flat Red Sable Brushes, for Oil Painting.

Red Polished Handles.

Sizes averaging about one-half size of Winsor & Newton's. (See illustrations, Nos. 95 and 96.)

No. 100.

No. 1 size,	.10	No. 7 size,	.24	No. 13 size,	.40
2 "	.12	8 "	.26	14 "	.45
3 "	.15	9 "	.28	15 "	.50
4 "	.18	10 "	.30	16 "	.60
5 "	.20	11 "	.32	18 "	.70
6 "	.22	12 "	34	20 "	.80

Flat Badger Brushes for Oil Painting, as a substitute for Sable

Frost & Adams' Round and Flat Fitch Brushes, in Tin, for Oil Painting.

Cedar Handles, a very good substitute for Sable Brushes.

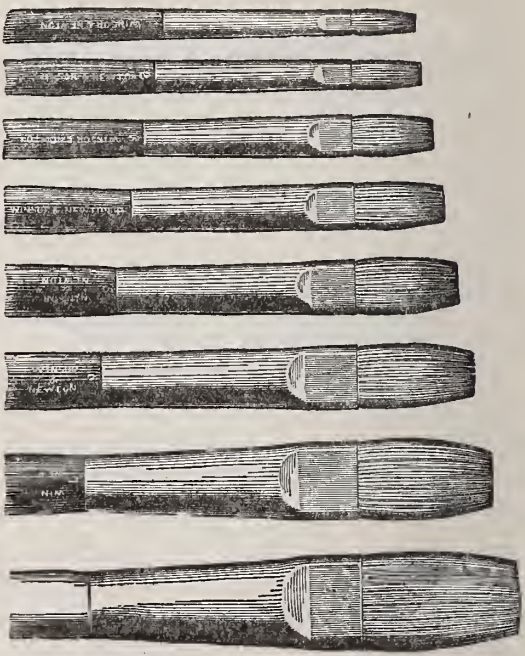
No. 101.

Sizes 1 and 2,	each,	.08	Sizes 7 and 8,	each,	.15
3 and 4,	"	.10	9 and 10,	"	.17
5 and 6,	"	.12	11 and 12,	"	.20

Sizes averaging about one-half size of Winsor & Newton's. (See illustrations, Nos. 95 and 96.)

Winsor & Newton's Flat Bristle Brushes, in Tin.

Polished Cedar Handles.

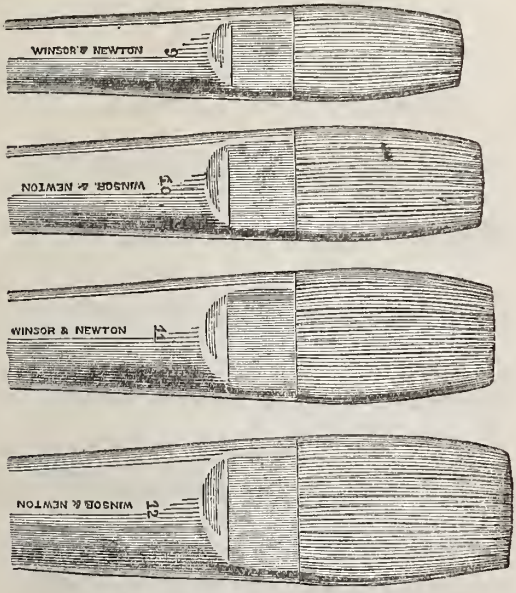


FLAT BRISTLE BRUSHES IN TIN. (Size of Nos. 1 to 8.)

No. 103.

No. 0 size,	.10	7 size,	.15
1 "	.10	8 "	.17
2 "	.12	9 "	.20
3 "	.12	10 "	.22
4 "	.13	11 "	.25
5 "	.13	12 "	.30
6 "	.14		

NOTE.—Winsor & Newton's Bristle Brushes are made from selected stock, and are recommended for their superior toughness and durability.



FLAT BRISTLE BRUSHES, IN TIN. (Size of Nos. 9 to 12.)

Prices of above on page 51.

Bristle "Landseer's" Brushes, in Tin, for Fur, &c.

Very long and thin of hair.

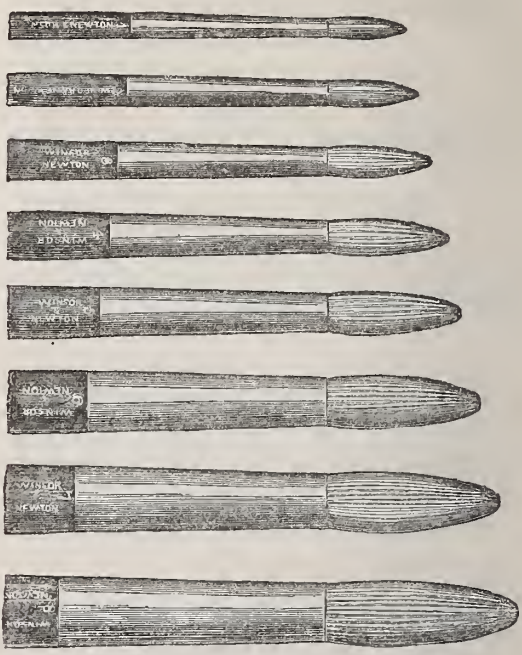
BRISTLE "LANDSEER'S" BRUSHES, IN TIN. (Size of Nos. 2 and 4.)

No. 104.

Sizes (in point of width) and Prices, same as those of the Flat Bristle Brushes. (See page 51.)

Winsor & Newton's Round Bristle Brushes, in Tin.

Polished Cedar Handles.

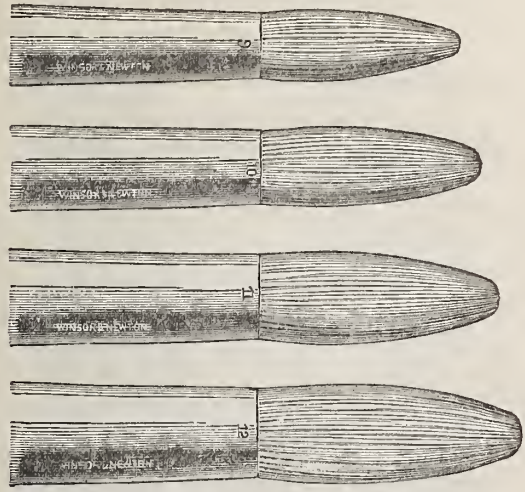


ROUND BRISTLE BRUSHES, IN TIN. (Size of Nos. 1 to 8.)

No. 105.

No. 0 size,	.10	No. 7 size,	.15
1 "	.10	8 "	.17
2 "	.12	9 "	.20
3 "	.12	10 "	.22
4 "	.13	11 "	.25
5 "	.13	12 "	.30
6 "	.14		

NOTE.—Winsor & Newton's *Extra Fine* Bristle Brushes, in tin, made of the finest and softest Lyons' Bristles, feather edged, and graduated so as to blend and keep well together in working (ranging in grade between Sable Hair and Ordinary Bristle Brushes, combining somewhat of the softness of the former with the firmness of the latter), imported to order.

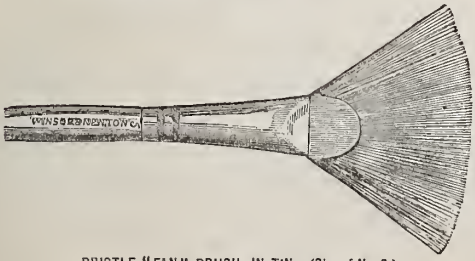


ROUND BRISTLE BRUSHES, IN TIN. (Size of Nos. 9 to 12.)

Prices of above on Page 53.

Winsor & Newton's Extra Fine Bristle "Fan" Brushes, in Tin,

For Light Touching, Slight Dragging, Scumbling; also, Hair, Foliage, Herbage, &c.

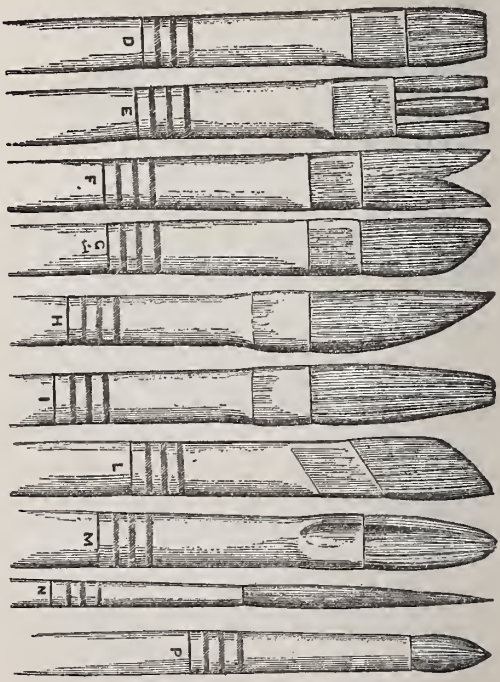


BRISTLE "FAN" BRUSH, IN TIN. (Size of No. 5.)

No. 106.	Nos. 1, 2 and 3, ...	each,	.30
	4, 5 and 6, ...	"	35

Winsor & Newton's Special Extra Fine Bristle Brushes.

Yellow Polished Handles.



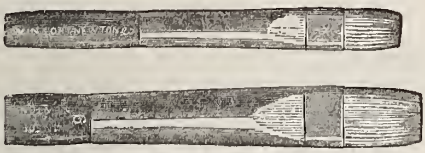
SPECIAL EXTRA FINE BRISTLE BRUSHES.

NOTE.—These Brushes are made at the suggestion, and after the patterns, of some of the most eminent Artists of the day. The hair of which they are composed is specially prepared, so as to insure the Brushes keeping their peculiar shapes. The various shapes, as illustrated, will suggest to Artists the use to which they are best adapted. For instance, F is double-pointed, affording a peculiar touch when pressed laterally on the canvas; G is carefully made to resemble a worn brush, but not cut or trimmed; H is of long, feathery edge, affording sweeping touches—and so on through the list.

No. 107. Any of the above shapes (and in various sizes), each, ...20

Bristle "Bright's" Brushes, in Tin, for Landscape, &c.

Short and full of hair.



BRISTLE "BRIGHT'S" BRUSHES, IN TIN. (Size of Nos. 3 and 6.)

No. 108.

Sizes (in point of width) and Prices same as those of the Flat Bristle Brushes. (See page 51.)

Frost & Adams' Round and Flat Bristle Brushes.

Red Polished Handles.

No. 109. Assorted Nos. 1 to 6, ...08
" " 7 to 12, ...08

The above two-thirds the size of corresponding numbers of Illustrations of Nos. 103 and 105, pages 51 and 53. For Bright's and Landseer's, see APPENDIX.

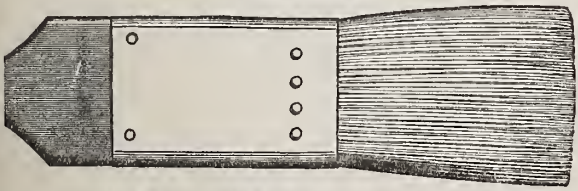
Bristle Poonah Brushes.--

Stained Handles.

No. 110. 6 sizes, either size, ...08

Flat Bristle Varnish Brushes, in Tin.

Cedar Handles, Nailed.

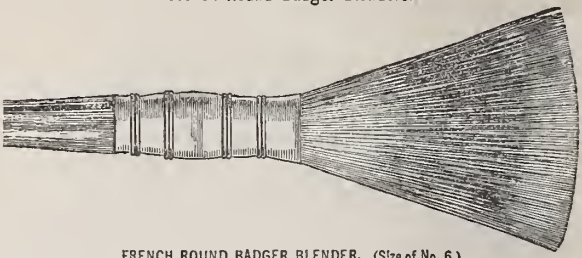


FLAT BRISTLE VARNISH BRUSH. (Size of the 1 Inch Brush.)

No. 111.

1 inch wide,	.15	2½ inch wide,	.38
1½ "	.20	3 "	.45
2 "	.30	4 "	.60

French Round Badger Blenders.



FRENCH ROUND BADGER BLENDER. (Size of No. 6.)

No. 112.

No. 1 size,	.20	No. 7 size,	.66
2 "	.25	8 "	.75
3 "	.33	9 "	.87
4 "	.42	10 "	1.00
5 "	.50	11 "	1.12
6 "	.58	12 "	1.25

Flat Camel Hair Varnish Brushes, in Tin.

FLAT CAMEL HAIR, IN TIN. (Size of 3-4 inch Brush.)

No. 113.

1 inch wide,	.25	2 inch wide,	.50
1¼ "	.30	2½ "	.63
1½ "	.38	3 "	.75

French Camel Hair Mottlers or Spalters.

Riveted, Short Stained Handles.

No. 114.

1 inch wide,	.18	2 inch wide,	.50
1¼ "	.25	2½ "	.65
1½ "	.34	3 "	.75
1¾ "	.40		

French Bears' Hair Mottlers or Spalters.

Riveted, Short Stained Handles.

No. 115.

1 inch wide,	.20	2 inch wide,	.45
1¼ "	.25	2½ "	.55
1½ "	.30	3 "	.65
1¾ "	.35		

FROST & ADAMS' CATALOGUE.

SECTION IV.

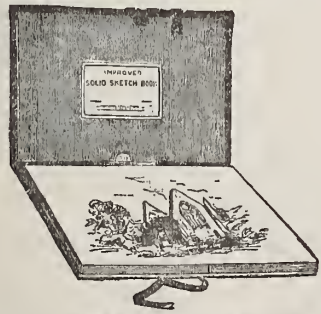
ARTISTS' STATIONERY,

COMPRISING

SOLID BLOCKS AND SKETCH BOOKS; PORTFOLIOS; WHATMAN'S DRAWING PAPERS; GRIFFIN ANTIQUARIAN; CRESWICK, HARDING, AND MACHINE PAPERS; CARTOON, CRAYON, AND CHARCOAL PAPERS; TRACING CLOTH AND PAPERS; ABRADED, BRISTOL, AND MOUNTING BOARDS; &c.

Solid Blocks. with or without Covers.

Made of Whatman's Thick Papers.



SOLID BLOCK WITH COVER.

				Solid Blocks, with Covers.	Solid Blocks, without Covers.
No. 116.	16mo. Royal,	4½ × 5½	inches,	$1.00	.40
	16mo. Imperial,	5 × 7	"	1.10	.55
	8vo. Royal,	5½ × 9	"	1.30	.60
	8vo. Imperial,	7 × 10	"	1.40	.85
	4to. Royal,	9 × 11½	"	1.75	1.20
	4to. Imperial,	10 × 14	"	3.00	1.60
	Half Royal,	11 × 18½	"	3.40	2.10
	Half Imperial,	14 × 20	"	4.00	3.00

Extra Thick Solid Blocks, with or without Covers.

Made of Whatman's Extra Thick Papers.

EXTRA THICK SOLID BLOCK WITH COVER.

				With Covers.	Without Covers.
No. 117.	16mo. Imperial,	7 × 5	inches,	$1.35	.80
	16mo. Double Elephant,	9 × 6	"	1.80	1.15
	8vo. Imperial,	10 × 7	"	2.30	1.40
	8vo. Double Elephant,	12 × 9	"	3.25	2.25
	4to. Imperial,	14 × 10	"	4.00	2.50
	4to. Double Elephant.	18 × 12	"	7.00	4.25
	Half Imperial,	20 × 14	"	8.00	4.70

Blocked Sketch Books.

Made of Whatman's Thick Papers.

BLOCKED SKETCH BOOK.

These Sketch Books are made like Solid Blocks, but with one edge stitched and bound, and three edges pasted only. When these latter are released, by being cut round in the usual manner, the Book becomes a "Sketch Book" instead of a "Block."

No. 118. 16mo. Imperial, 7 × 5 inches. $1.25
8vo. " 10 × 7 " 1.75

NOTE.—Blocked Sketch Books made of Machine *Tinted Papers* are one-fourth less in price than the above.

Charcoal Sketch Blocks.

Berville and Michalet Superior Papers.

No. 119. Half Royal, 11 × 18 inches, ...95
4to. " 9 × 11 " 65
No. 119½. Common Half Royal, 11 × 18 inches, ...80
" 4to " 9 × 11 " 55
No. 120. Allonge Superior Paper, Half Royal, 11 × 18 inches, . . $1.20
" " 4to. " 9 × 11 " 80

No. 121. Charcoal Sketching Folios, Nos. 1, 2, 3, ... $1.50, $2.50, $3.25

Frost & Adams' School of Art Folios.

No. 122. 7 × 10½ inches, Filled with German Drawing Paper, ...50
9¼ × 13½ " " " " 80

No. 123. 7 × 10½ inches, Empty, ...35
9¼ × 13½ " " 50

Frost & Adams' Sketch Books.

Leather Backs and Elastic Bands. Made from the Best German White Drawing Papers.

No. 124. No. 1 size, 3¾ × 5¾ inches, ...40
2 " 4½ × 6¾ " 50
3 " 4½ × 7⅞ " 55
4 " 5¾ × 8⅞ " 65
5 " 7 × 11 " 1.00

Frost & Adams' Tinted Sketch Books.

Made of French Tinted Paper, for Pencil Drawing.

No. 125. No. 1 size, 3¾ × 5¾ inches, ...45
2 " 4½ × 6¾ " 55

No. 125.	No. 3 size, 4½ × 7⅞ inches,	.65
	4 " 5¾ × 8⅞ "	.75
	5 " 7 × 11 "	1.00

Field Books.

No. 126.	Level Books, 4 × 6½ inches, made of superior paper, per doz.,	$6.00
	Transit " " " " " "	6.00
	Level " " " made with front flap,	7.20
	Transit " " " " " "	7.20
	Level " 5 × 8 inches, made of superior paper, "	9.00
	Transit " " " " " " "	9.00

Portfolios.

Superior Portfolios, Cloth Sides, Leather Corners and Backs, Silk Strings.

		Plain.	With Inside flaps.
No. 127.	10 × 14 inches,	$1.20	$1.88
	12 × 16 "	1.50	2.25
	14 × 18 "	1.80	2.63
	16 × 22 "	2.10	3.38
	18 × 24 "	2.40	3.75
	22 × 30 "	3.00	4.50

Larger and irregular sizes made to order, in any style of binding, at short notice.

Portfolios, Paper Sides, Leather Corners and Backs.

Made from the best bookbinders' junk board in the most substantial manner. **For Architects' and Engineers' use.**

No. 128.

10 × 14 inches,	.75	16 × 22 inches,	$1.30
12 × 16 "	.85	18 × 24 "	1.45
14 × 18 "	1.20	22 × 30 "	1.50

Portfolios, Paper Sides, Cloth Backs and Corners.

For Architects' and Engineers' use.

No. 129.

10 × 14 inches,	.55	16 × 22 inches,	.85
12 × 16 "	.60	18 × 24 "	1.15
14 × 18 "	.70	22 × 30 "	1.30

Drafting and Drawing Papers.

Winsor & Newton's Griffin Antiquarian.

A pure, choice and first-class drawing paper of Whatman's manufacture.

No. 130.	Size, 31 × 52 inches,	per sheet,	$2.25
	2d Quality, 31 × 52 inches,	"	1.25

Imitation Creswick's Drawing Papers.

Resembling the celebrated Creswick Paper in Texture and Tint. Cold Pressed and Extra Rough.

No. 131.	Imperial, 110 lbs. to the ream,	per sheet,	.30
	Double Elephant, 27 × 40 inches,	"	.50

J. D. Harding's Drawing Papers.

No. 132.	Imperial, 22 × 30 inches,	per sheet,	.13
	" Extra thick, 22 × 30 inches,	"	.25

Whatman's Perfect Drawing Papers.

Smooth or Rough Surface.

			Per sheet.	Per quire.
No. 133.	Antiquarian,	31 × 52 inches,	$1.50	$30.00
	Double Elephant,	27 × 40 "	.25	5.00
	Imperial,	22 × 30 "	.13	2.35
	Super Royal,	19 × 27 "	.10	2.10
	Royal,	19 × 24 "	.07	1.65
	Medium,	17 × 24 "	.06	1.25
	Demy,	15 × 20 "	.05	.90
	Zanders' Double Elephant Water Color Paper, Rough,		25	5.25

Whatman's Drawing Papers of Extra Weights.

			Per sheet.	Per quire.
No. 134.	Double Elephant,	27 × 40 inches,	.50	$10.00
	Imperial,	22 × 30 " 90 lbs. to ream,	.20	4.00
	"	22 × 30 " 140 " "	.30	6.00
	"	22 × 30 " 240 " "	.60	12.00
	"	22 × 30 " 300 " "	1.25	27.00

German Drawing Papers, Hard Finished Surface.

For Pencilling or Drafting.

			Per sheet.	Per quire.
No. 135.	Double Elephant,	26 × 40 inches,	.18	$2.75
	Imperial,	22 × 30 "	.08	1.00

			Per sheet.	Per quire.
No. 135.	Super Royal,	19 × 27 inches,	.06	$ .90
	Royal,	19 × 24 "	.08	.70
	Medium,	17 × 22 "	.06	.60
	Demy,	15½ × 19½ "		.45
	Cap,	14 × 17 "		.35

American Papers in large variety.

Continuous Profile Papers.

No. 136. Plate A.—Rulings 20 inches wide, Horizontal Divisions four to the inch, Vertical Divisions twenty to the inch, and having every tenth horizontal division line and every fiftieth vertical division line heavier than the others. Per yard, . . .30

Plate B.—Rulings 20 inches wide, Horizontal Divisions four to the inch, Vertical Divisions thirty to the inch, and having every fourth horizontal division line and every twenty-fifth vertical division line heavier than the others. Per yard, . .30

NOTE.—Plate B corresponds to that in sheets known as Brown's Profile Paper. We also have the above in metric divisions.

Cross Section Papers.

No. 137. Trautwine's Cross Section and Diagram, 10 feet to inch, for embankments of 14 and 24 feet, roadway, and for excavations of 18 and 28 feet, rulings 19¾ × 12 inches, per sheet, . . .25

Cross Section Papers, rulings 22 × 16 inches, 8 feet to inch, per sheet, ...25

Cross Section Papers, rulings 20 × 16 inches, 10 feet to inch, per sheet, ...25

Cross Section Papers, rulings 20 × 16 inches, 10 feet to inch, every fifth line heavy, per sheet, ...25

Cross Section Papers, rulings 21 × 16 inches, 16 feet to inch, per sheet, ...25

Cross Section Papers, rulings 18 × 24 inches, 8 feet to inch, per sheet, ...15

NOTE.—All the Profile and Cross Section Papers can be furnished printed with red or green lines.

White Roll Drawing Papers.

No. 138.	Per yard.		Per yard.
42 inches wide (D. Cartoon), . .	.30	60 inches wide (G. Cartoon), . .	.50
59 " " (E. Cartoon), tinted assorted, ...	.45	59 " " (Eggshell), . .	.45
57 inches wide (H. Cartoon), . .	.45	54 " " (C. Cartoon), . .	.30
59 " " (Paragon Cartoon),	.50	60 " " (Leonine), . .	.50

Manila Roll Drawing Papers,

For Detail Drawing.

No. 139. 48 inches wide, Buff Tint Manila (XXX), extra heavy, per yard, .15

48 " " " (XX), medium, . " .12

48 " " " (X), thin, . . " .10

O. K. Drawing Paper, a superior article, 36, 40, 44 and 48 in. wide.

Cloth Backed or Mounted White Papers.

			10 yd. rolls.	Per sheet.
No. 140.	A.	Whatman's D. E., 40 inches wide, ...	$15.00	$1.00
	B.	" Imperial, 22 × 30 inches, . . .		.60

			10 yd. rolls.	Per yard.
No. 140.	E. (Eggshell),	54 inches wide,	$10.50	$1.10
	Paragon,	54 "	12.00	1.25
	G. (G. Cartoon),	60 "	12.00	1.30
	G. (G. Cartoon),	30 "	6.00	.65
	L. (Leonine),	60 "	15.00	1.60
	E. (Eggshell),	60 "	11.50	1.20

Samples of either of the above furnished on application.

Tracing or Vellum Cloth.

		Per roll.	Per yard.
No. 141.	Imperial, in rolls of 24 yards, 30 inches wide,	$7.00	.40
	" " " 36 "	8.00	.50
	" " " 42 "	10.50	.55

The Imperial Cloth, designated "Dull Back," is now almost universally used. It takes pencil, ink and color much better than the glazed surface.

NOTE.—Sager's Cloth is not kept in stock, but will be furnished, if required, at lowest market rates.

Superior Tracing Papers.

No. 142.	Roll English, 20 yards × 40 inches,	per roll,	$2.75
	" French, 44 " × 44 "	"	5.50
	" 22 " × 44 "	"	2.75
	" 11 " × 44 "	"	1.30
	" 44 " × 44 " White,	"	3.50
	" 22 " × 44 " "	"	1.80
	" 11 " × 44 " "	"	.85

		Per quire.	Per sheet.
No. 143.	Double Elephant, 27 × 40 inches,	$1.60	.15
	Imperial, 20 × 30 "	1.00	.08
	Vegetal, 19 × 24 "	1.70	.12
	D. E. Vegetal, 27 × 40 "	7.00	.30
	American, 21 × 31 "	2.50	.15
	" Bond, 19 × 30 "	1.25	.10
	Flaxine, 21 × 31 "	2.50	.15

Tinted Crayon Papers.

No. 144.	English Double Elephant, 27 × 40 inches,	per sheet,	.20
	" Imperial, 22 × 30 "	"	.12
	French " 21 × 28 "	"	.10
	" Royal, 19 × 24 "	"	.08
	Green's Erasive Papers, 22 × 30 "	"	.35

French Charcoal Papers.

No. 145.	Ordinary, Royal, 19 × 24 inches,	per sheet,	.05
	Michalet, " " "	"	.06
	Lalaune, " " "	"	.06
	Allouge, " " "	"	.08
	Rose, " " "	"	.08
	Butter Paper, " "		10

French Pastel Paper, &c.

No. 146.	Pastel Paper, Royal, 19 × 24 inches,	per sheet,	.20
	" Imperial, 21 × 28 "	"	.25
	French Pastel Board, 23 × 29 "	"	.65
	American Monocromatic Board, 21 × 28 "	"	.45
	Pastel Paper, Double Elephant, 27 × 40 "	"	.60

Reynolds' and Turnbull's Abraded Boards.

			2 sheet.	3 sheet.	4 sheet.
No. 147.	Cap, 15 × 12 inches,	per sheet,	.15	.18	.25
	Demy, 18 × 14 "	"	.18	.25	.33
	Medium, 20½ × 15½ "	"	.23	.33	.40
	Royal, 22 × 17½ "	"	.40	.55	.65

Reynolds' and Turnbull's Bristol Boards.

			2 sheet.	3 sheet.	4 sheet.
No. 148.	Cap, 15 × 12 inches,	per sheet,	.08	.10	.12
	Demy, 18 × 14 "	"	.12	.15	.20
	Medium, 20½ × 15½ "	"	.15	.17	.22
	Royal, 22 × 17½ "	"	.20	.25	.30
	Super Royal, 26 × 18 "	"	.30	.35	.40

English Mounting Boards.

No. 149.	Imperial, Whatman's,	.25 .30 .40 .50
	Double Elephant, 26 × 28½ inches,	.60
	Pulp Board for Mounting, 22 × 30 "	.15
	" " " " 27 × 39 "	.20

French Tinted Mounting Boards.

Blue Grey.

No. 150.	Royal, 19 × 25 inches, 3 sheets in thickness,	.17
	" 20 × 28 " 8 " "	.30
	" 20 × 26 " 10 " "	.40

American Mounting Boards.

No. 151.	Imperial, 22 × 30 inches, 6 sheets in thickness,	.12
	Half Imperial, 15 × 22 " 6 " "	.07

Boards thicker than the above at higher prices.

Transfer Papers.

No. 152.	Black Transfer Paper, 12 × 18 inches, per sheet,	.08
	Blue " " " "	.08
	Red " " " "	.08
	Green " " " "	.08

Miscellaneous.

No. 153.	French Tinted Paper, 5 × 33 feet, per roll,	$3.00
	" " Crayon Board, 19 × 24 inches, per sheet,	.20
No. 154.	Hand-Made Crayon Paper, Various Tints, 21 × 30 inches, per sheet,	.20
No. 155.	Cattermole Paper, for Water Color Painting, 21 × 29 inches, per sheet,	.25
No. 156.	American Folded Log Paper, 20 × 28 inches, per quire,	.75
No. 157.	Black Card Board, 22 × 28 inches, per sheet,	.15
	" " " " Extra Thick, "	.30
	" Paper, " " "	.10
	" Pebbled Paper, " " "	.10
No. 158.	Blotting Paper, 19 × 24 inches, per sheet,	.10
No. 159.	White Tissue Paper, 20 × 28 inches, per dozen,	.10

FROST & ADAMS' CATALOGUE.

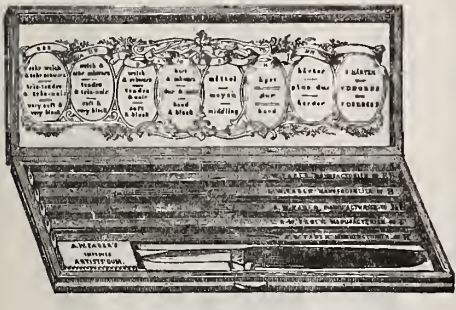
SECTION V.

DRAWING PENCILS,

RUBBER, ERASERS, STUMPS, CRAYONS, CHALKS, AND CHARCOAL.

A. W. Faber's Lead-Pencils.

A. W. Faber's Pencils, in Boxes.

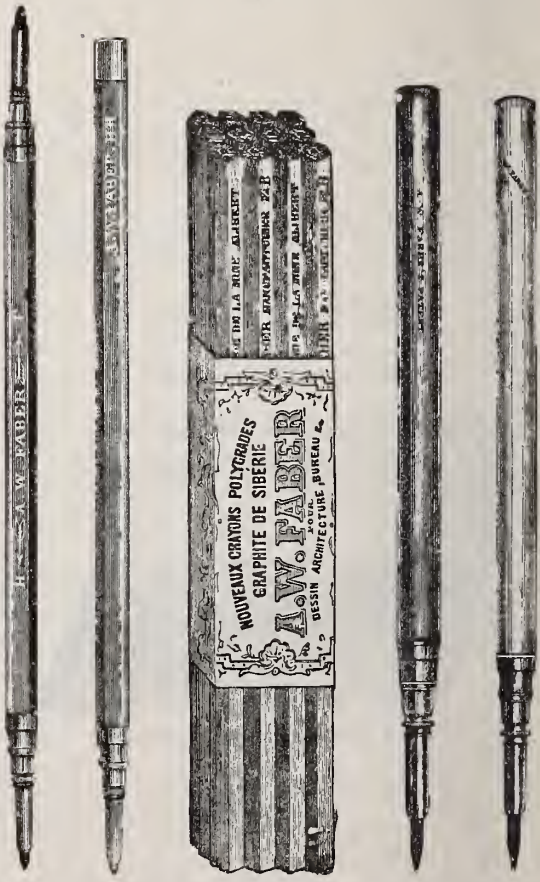


BOX, 5 SIBERIAN PENCILS, KNIFE AND RUBBER.

No. 160.	5	Grades Siberian Pencils,	.90
	7	" "	1.10
	5	" " and Knife and Rubber,	1.10
	10	" "	1.50
	10	" " on cards,	1.50
	5	" English Yellow Silver,	.55
	7	" " "	.60
	5	" " " Knife and Rubber,	1.00
	10	" " "	.85
	4	" Round Black Gilt,	.35

A. W. Faber's Siberian Pencils.

Tubular, Etc.



1. 2. 3. 4. 5.

Description and Prices on following page.

A. W. Faber's Tubular Siberian Pencils,

For Architects' and Engineers' use, and all general purposes.

No. 161. 10 grades, from 3B to 6H, each, ...25

Illustrated on page 67, cut No. 2.

No. 162. A. W. Faber's Tubular Siberian Pencils (Double-Enders), each, . .40

Illustrated on page 67, cut No. 1.

No. 163. A. W. Faber's Artists', Ebony, 3½ inches long, ...35
" " " " 4 " 55

Illustrated on page 67, cut No. 4.

No. 164. A. W. Faber's Artists', Ivory, 3 inches long, ...35
" " " " 3½ " 50
" " " " 4½ " 65
" " " " 5¾ " 85
" " " " 3½ " slide, ...75
" " " " 4½ " " 1.00

Illustrated on page 67, cut No. 5.

No. 165. A. W. Faber's Siberian Leads for Tubular Pencils, 6 Leads in a box, ...50

No. 166. A. W. Faber's Extra Siberian Pencils, 10 grades, from 3B to 6H, best manufactured, each, .10; per dozen, ... $1.00

Illustrated on page 67, cut No. 3.

Winsor & Newton's Celebrated Lead Pencils in Boxes and separate.
Winsor & Newton's Leather Pencil Cases, ...50, .60 and .75

A. W. Faber's Pencils,

For Schools and Ordinary Use.

No. 167. A. W. Faber's Black Round Gilt, Nos. 1, 2, 3, 4, . per dozen, .55
" " Hexagonal Gilt, Nos. 1, 2, 3, 4, 5, . " .90
" " Mathematical Pencils, for dividers, . " .70
" " English Yellow Silver, 10 grades, from 3B to 4H, each, .06; per dozen, ...55

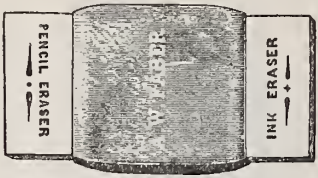
Colored Pencils in Boxes and Singly.

No. 168. 6 Assorted Colors, in Box 4½ inches long, . . per box, .25
12 " " 4½ " . . " .50
18 " " 4½ " . . " .75
24 " " 4½ " . . " 1.00

No. 169. A. W. Faber's 6 Assorted Colors, in Box 7 inches long, per box, .75
" " 12 " " 7 " " 1.20
" " 18 " " 7 " " 1.75
" " 24 " " 7 " " 2.25

No. 170. A. W. Faber's Red, Blue, Green, Yellow, etc., ... each, .10
" " Red and Blue, Octagon. . . . . " .12

Rubber, &c.



INK AND PENCIL ERASER.

RUBBER TIP.

No. 171.	A. W. Faber's Ink and Pencil Eraser, small, size of cut,	.15
" "	" " mammoth size,	.20
" "	Scotch Ink and Pencil Eraser,	.17
" "	Rubber Tip,	.03
" "	Universal Paper Cleaner,	.30
" "	Ink Eraser,	.06
" "	Black Gum,	.08 to .50
" "	White Rubber, best in the market,	.05 to .50
" "	Eliptic Rubber, a superior article,	.10 to .50
" "	Pencil Rubber,	.12
	Webster's Chalk Eraser,	.20

No. 172.	Conte's Crayon and Ink Eraser, No. 1,	.12
"	" " " 2,	.18
"	" " " 3,	.25
	French Nigrivorines, three sizes,	.08, .10 and .12

For Steel Erasers, see Section 6.

No. 173.	Sponge Rubber, 1 inch cube,	.10
	" 1¾ × 1⅛ × 1 inch,	.15
	" 4 × 2 × 1 "	.60
	" Mammoth, 6 × 4 × 1 "	1.70
	Rubber Back Glove Cleaner, 2½ × 1¾ × ⅝ "	.25
	Natural Rubber,	.25 to .40
	Davidson's Velvet Rubber,	.05 to .50
	Crystal Rubber, two sizes,	each, .05 and .10

French Stumps.

No 174.	Chamois Stumps, 8 sizes,	.08 to .13
" "	extra large,	.15 to .25
" "	" quality,	.15 to .40

No. 174.	Kid Stumps, 8 sizes,	.08 to .15
	Cork " 8 "	.08 to .15
	Paper " 8 "	.05 to .10
	" " small, 12 in a package,	.10
	Amadou,	.25
	Pith Stumps, assorted sizes,	.30 to .50

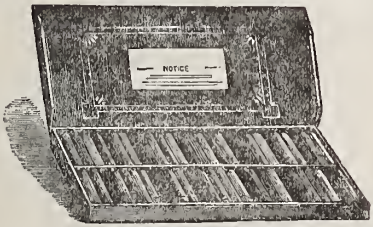
French Charcoal.

No. 175.	Berville, petit,	50 sticks in a Box,	.50
	" gros,	30 " "	.45
	Conte,	50 " "	.45
	Venetian,	50 " "	.55
	Rouget,	25 " "	.40
	Ordinary,	50 " "	.25
	Berville,	50 " " assorted, 4 grades,	.55

Variety of Charcoal in Large and Extra Large Sticks.

Soft French Pastels.

Assorted Colors,



BOX SOFT PASTELS.

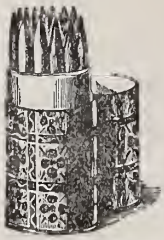
No. 176.	No. 1,	Lefranc's First Quality, Box containing	26	Crayons,	.80
	2,	" " "	42	"	1.10
	3,	" " "	56	"	2.00
	4,	" " "	62	"	2.70
	5,	" " "	129	"	4.50
	6,	" " "	156	"	5.50

Double and Extra Size Boxes, ranging from $8 to $15.

No. 177. Separate Pastels from 6 to 50 cents per stick, according to color.
Boxes of 26 Pastels each, containing an assortment of either Grey, Blue, Brown, Green, Yellow, etc., per box, . . . 1.50
Girault's Soft Pastels, all sizes and colors, prices less than above.
A full line of Ralph Mengs Pastels.

Hard French Pastels.

Assorted Colors.



BOX HARD PASTELS.

No. 178.	Lefranc's First Quality, Box containing	12 sticks,	. . . .	.30
	" " "	18 "	. . . .	.40
	" " "	24 "	. . . .	.50
	" " "	36 "	. . . .	.80
	" " "	48 "	. . .	1.10
	Ordinary, "	6 "	. . . .	.10
	" "	12 "	. . . .	.18
	" Square Box, "	12 "	. . . .	.15

Miscellaneous.

No. 179.	Conte Crayons in Cedar, or Crayon Pencils, each,	. . . . .	.08
	Faber's " " " " "	. . . . .	.06
	Gilbert's " " " " "	. . . . .	.10
No. 180.	Black, Square Conte Crayons, Nos. 1, 2, 3, . . .	per dozen,	.18
No. 181.	Red or White Conte Crayons, Square or Round, .	"	.18
No. 181½.	Crayon Sauce, small, ...	"	.60
	" " large, ...	"	1.00
No. 181¾.	Perfection Crayon Sauce, ...	per bottle,	.10
No. 182.	Black, Round, Varnished Crayons, ...	per dozen,	.38
No. 183.	American Blackboard Chalk, ...	"	.08
No. 184.	E. Woolf & Sons' Permanent Chalk Crayons, ...		.10
No. 185.	School Crayons, Assorted Colors, ...	per gross,	1.00
No. 186.	Currier's Lithographic Crayons, Nos. 1, 2, 3, . .	per dozen,	.35

NOTE.—Fixatif Rouget, so extensively used for fixing charcoal drawings, etc., will be found under the head of "SUNDRIES," Section 8.

SECTION VI.

METAL & JAPANNED WARE,

COMPRISING

JAPANNED TIN WATER AND OIL COLOR BOXES, WATER AND OIL BOTTLES AND CUPS, PALETTE KNIVES, ERASERS, PORTCRAYONS, DRAWING PINS, AND METALLIC PREPARATIONS.

Winsor & Newton's

Empty Whole Pan Japanned Tin Moist Color Boxes.

WHOLE PAN BOX.

No. 187.	To contain	6 Whole	or 12 Half	Pans,	. . . . .	$1.30
	"	8 "	16 "		. . . . .	1.40
	"	10 "	20 "		. . . . .	1.65
	"	12 "	24 "		. . . . .	1.90
	"	16 "	32 "		. . . . .	2.25
	"	18 "	36 "		. . . . .	2.40
	"	20 "	40 "		. . . . .	2.60
	"	24 "	48 "		. . . . .	3.00

For Whole Pan Japanned Tin Moist Color Boxes, Fitted with Colors, see pages 16 and 17.

Winsor & Newton's

Empty Half Pan Japanned Tin Moist Color Boxes.

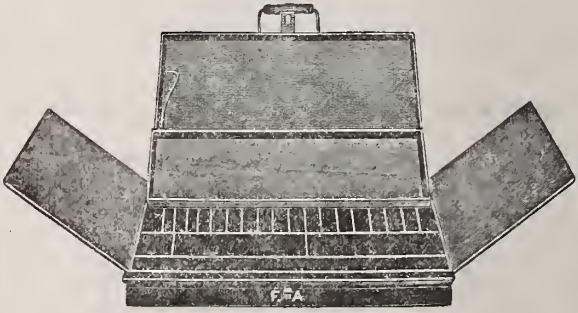
Illustrated on page 17.

No. 188.

To contain	6	Half Pans,	. . $1.25	To contain	16	Half Pans,	. . $1.90
"	8	"	. . 1.35	"	18	"	. . 2.00
"	10	"	. . 1.45	"	20	"	. . 2.10
"	12	"	. . 1.55	"	24	"	. . 2.30

For Half Pan Japanned Tin Moist Color Boxes, Fitted with Colors, see pages 17 and 13. Frost & Adams' Empty Japan Boxes about 10 per cent. less than above.

Empty Japanned Tin Oil Sketching Boxes.



NO. 00 BOX.

No. 189. No. 00. Empty Japanned Tin Sketch Box, arranged for Palette, Brushes, Oils, etc., with Inside Flaps and Tray over the Colors to keep them from shaking about, size 10 × 14, . . . $2.25

No. 0. Empty Japanned Tin Sketch Box, same as No. 00, with Inside Flaps over Colors only, size 9¼ × 13½, ... 2.15

No. 1. Empty Japanned Tin Sketch Box, arranged for Palette, Colors, Brushes, Oils, etc., Bottom Compartment for Mill Boards, size 10 × 14, ... 2.00

No. 1 F. Empty Japanned Tin Sketch Box, same as No. 1, with Inside Flaps over the Colors, ... 2.15

No. 2. Empty Japanned Tin Sketch Box, same as No. 1, without the Compartment for Mill Boards, size 9¼ × 13½, . . . 1.85

No. 3. Empty Japanned Tin Sketch Box, arranged for Palette, Colors, Brushes, Oils, etc., size 9 × 13, ... 1.65

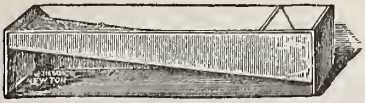
No. 4. Empty Japanned Tin Sketch Box, a very compact Box, size 7½ × 11, ... 1.50

No. 5. Empty Japanned Tin Sketch Box, arranged with Tray for Moist Water Colors or China Colors, size 5¾ × 8, . . . 1.75

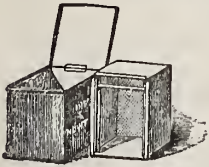
No. 6. Tourists' Empty Japanned Tin Sketch Box, very light and compact, 5½ × 9½, ... $1.25

For Fitted Oil Sketching Boxes, see page 35.

Tin Ware Sundries.



IMPROVED SMUTCH AND RAG PAN.

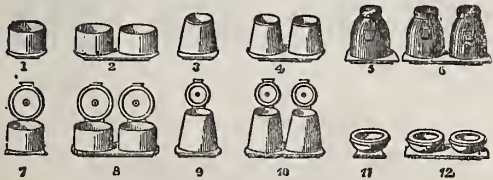


IMPROVED JAPANNED BRUSH CLEANER.

JAPANNED BRUSH WASHER.

No. 190. Winsor & Newton's Japanned Flat Oil Bottles, with Screw Tops, each, ...80
Japanned Flat Oil Bottles, with Screw Tops, Thin, . each, .60
Winsor & Newton's Brush Washers, ... " .65
" " " Japanned, . . " .80
Brush Washers, Ordinary, ... " .33
" " with Cover, . . . " .42
Winsor & Newton's Improved Brush Cleaners, . . . " .85
" " " " Japanned, " 1.15
" " Smutch Pans, 14 inches long, . . " 1.15
" " Improved Smutch and Rag Pans, 14 inches long, each, ... 1.50
American Improved Smutch and Rag Pans, 14 inches long, each, 1.25

Oil and Water Color Cups.



			Plain.	Japanned.
No. 191.	No. 1.	Winsor & Newton's Tin Palette Cups, . each,	.10	.20
	2.	Ditto, Double, ... "	.20	.40
	3.	Conical Tin Cups, ... "	.	.08

				Plain.	Japanned.
No. 191.	No. 4.	Conical Tin Cups, Double, ...	each,		.10
	5.	Winsor & Newton's Water Color Cups, with necks for corks	"		.30
	6.	Ditto, Double, ...	"		.60
	7.	Winsor & Newton's Capped Tin Cups, .	"	.30	
	8.	Ditto, Double, ...	"	.60	
	9.	Capped Conical Tin Cups, ...	"		.10
	10.	" " Double, . .	"		.15
	11.	Winsor & Newton's Improved Cups, with moveable rims, ...	"	.20	.40
	12.	Ditto, Double, ...	"	.40	.80

Winsor & Newton's

Japanned Water Bottles,

With Cups to contain the water when in use.

No. 2.

No. 1.

No. 6.

No. 3.

No. 4.

No. 5.

No. 192. No. 1. Round Japanned Tin Water Bottle and Cups, $3\frac{1}{2} \times 1\frac{1}{2}$ inches, ... $1.00

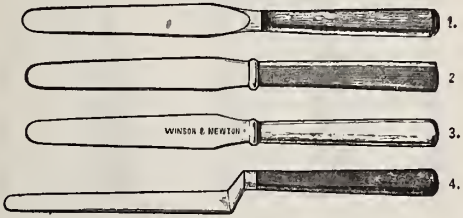
No. 2. Sketcher's Japanned Tin Water Bottle and Brush Case complete, $8 \times 2\frac{3}{4}$ inches; the brushes being held by elastic bands cannot be injured at their points, ... 2.80

No. 3. Small Oval Japanned Tin Water Bottle and Cups, $3\frac{3}{4} \times 1\frac{1}{2}$ inches, ... 1.30

No. 4. Middle Oval Japanned Tin Water Bottle and Cups, $5\frac{1}{4} \times 1\frac{3}{4}$ inches, ... 1.50

No. 192. No. 5. Large Oval Japanned Tin Water Bottle and Cups, 6¼ × 2 inches, ... $1.80
No. 6. Flat Oval Japanned Tin Water Bottle and Cups, 3¾ × 2½ inches, ... 1.75

Steel Palette and Gilders' Knives.

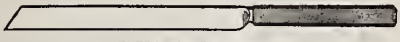


PALETTE KNIVES.

			3 inch.	3 1-2 inch.	4 inch.	4 1-2 inch.	5 inch.
No. 193.	No. 1.	Cocoa or Ebony handle,	.25	.25	.30	.35	.35
	2.	Ditto, balanced, . .	.35	.35	.40	.45	.45
	3.	Ivory handle, balanced,	.80	.85	.95	1.05	1.15
	4.	Cocoa Trowel, . .	.40	.50	.55	.60	.65

A large variety of French Palette Knives, very flexible, and suitable for applying color.

No. 194. Pocket Palette Knives, Pearl Handle, ... $1.25
" " Shell " 1.00
" " Ivory " 75



EXTRA GILDERS' KNIFE.

No. 195. 6 inch Blade, Cocoa Handle, ...50

Portcrayons.

No. 196. Common Brass, 4 to 6 inches long, ...05 to .10
Washed or Plated, 4 to 6 inches long, ...08 to .15
Conte Portcrayons, Hollow Cedar Centres, ...20
" " Ebony, Plated Ends, ...30

Pencil Sharpeners.

No. 197. Fisher's Jack Plane Pencil Sharpener, ...25
Condon's Pencil Sharpener, ...25

Scrapers and Erasers.

1. 2. 3. 4. 7.

No. 198.	No. 1.	Plain Steel Oil Color Scraper,	.25
	2.	Steel Oil Color Scraper, Ebony Handle,	1.00
	3.	Illuminating Eraser, Cocoa Handle,	.40
	4.	Ebony Handle Eraser,	.55
	7.	Fine Eraser, Ivory Handle,	.75
		Ordinary Eraser, Cocoa Handle,	.40
		" Bone "	.50
		Curved Erasers, Cocoa Handle,	.50

Drawing Pins or Thumb Tacks.

No. 199.	Brass Tacks, Steel Points, 3-8 inch diam., per dozen,	.20 to .35
	German Silver, Steel Points, either Round or Beveled Heads, 5-16 inch diam., per doz.,	.30
	Ditto, 3-8 inch diam., "	.35
	Ditto, 7-16 " "	.40
	Ditto, 1-2 " "	.45
	Ditto, 9-16 " "	.55
	Ditto, 5-8 " "	.75
	German Silver, Steel Points, screwed in and riveted, either Round or Beveled Heads, 3-8 inch diam., per doz.,	.45
	Ditto, 7-16 " "	.60
	Ditto, 1-2 " "	.70
	Ditto, 9-16 " "	.80
	Solid Steel Tacks, 5-16 "	.25
	" " Fine, 5-16 "	.75

Paper Fasteners.

No. 200.	McGill's, either Round or Flat, per dozen,	.15 to .60

Metallic Preparations.

SHELL

SAUCER.

CAKE.

No. 201. Gold Shells, ... each, .20
Silver " . . . . . " .10

No. 202.

Gold Saucers, 1	inch,	each,	.25	Silver Saucers, 1	inch,	each,	.15
" 1½	"	"	.35	" 1½	"	"	.25
" 2	"	"	.50				

Cakes.

No. 203. Fine Gold, in Porcelain Pans, ... $2.25
Aluminium " " 45
Silver " " 45
Pure Gold in Cakes, cheap, Woolf's.

Bronze.

No. 204.

No. 500,	per oz.,	.08	No. 5,000,	per oz.,	.18
800,	"	.10	6,000,	"	.20
1,000,	"	.10	Finest French,	"	.40
2,000,	"	.12	" Silver,	"	.25
3,000,	"	.15	No. 6,000 Silver,	"	.20
4,000,	"	.16			

Gold Leaf furnished to order.

Foil or Tinsel.

No. 205.

White, 4½ × 10½ in.	per doz.,	.60	Red, 4½ × 10½ in.	per doz.	.80
Green, " "	"	.80	Yellow, " "	"	.80
Blue, " "	"	.80			

Gold Paints.

No. 206. Bessemer's small bottle Bronze, with Liquid Preparation . . .45
" large " " . . .60
" large bottle Liquid Preparation, ...20
Marsching's, Meir's, Dent's and Royal Gold Paints.
Williams' and Ruby's Gilding.
Marsching's Silver and Royal Silver Paints, constantly on hand.

Gold Ink.

No. 207. Winsor & Newton's Gold Ink, warranted to burnish bright, per bottle, ...50
Leroux's Gold or Silver Ink, per bottle, ...35

FROST & ADAMS' CATALOGUE.

SECTION VII.

ARTISTS' EASELS,

SKETCHING UMBRELLAS, SKETCHING STOOLS, DRAWING BOARDS, SKETCHING BOXES, PALETTES, MAHL STICKS, &c.

Sketching Easels.

DRAWING BOARD EASEL.

No. 208. Patent Drawing Board Easel, ... $2.75
" " " including Imperial Drawing Board with Moveable Shelf, ... 4.25

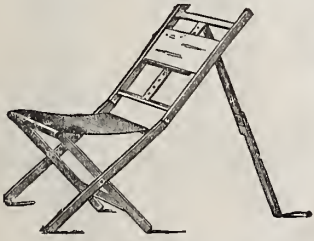
NOTE.—The Patent Drawing Board Easel is a very convenient arrangement in drawing from life or from the flat. It is made of malleable iron, and is exceedingly light, strong and durable. It can be readily attached to any Drawing Board and detached at pleasure. Owing to its compact form, it serves a good purpose for classes, and is also very convenient for office or studio.

Easels for Out-Door Sketching.

SKETCHING EASEL, NO. 209.

SKETCHING EASEL, NO. 211.

No. 209. Plain Sketching Easel, of Hard Wood, to Fold, ... $1.00
No. 209½. Same as No. 209, with Jointed Legs, ... $1.25
No. 210. Same as No. 209, with Shelf and Jointed Legs. Dimensions when folded, 26 × 2 × 2 inches, ... $1.50
No. 211. French Sketching Easel, of hard wood, very compact; dimensions when folded, 29 × 2 × 2 inches, ... $3.00
No. 211½. French Sketching Easel, same as above, with sliding legs so it can be fitted to an uneven surface, ... $4.50



NO. 212, OPEN.

NO. 212, CLOSED.

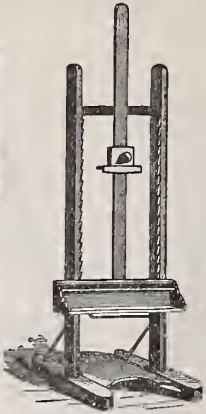
No. 212. Sketching Seat and Easel combined, ... $4.00

No. 213. Black Walnut Table Easel, ... $2.75

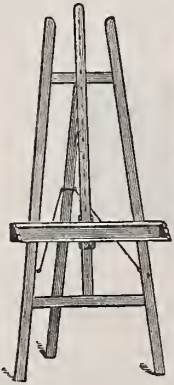
NOTE.—The Sketching Seat and Easel combined, No. 212, represented in above cut, is made of hard wood, and when folded occupies a space 27 × 14 inches; weight 6 lbs. 8 oz.,

Studio Easels.

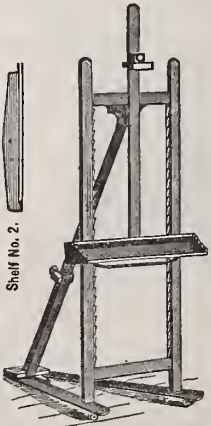
Shelf No. 1.



PAT. FOLDING EASEL NO. 222a. PAT. UPRIGHT EASEL NO. 215. PAT. RACK EASEL NO. 216.



Shelf No. 2.



PAT. RACK EASEL, NO. 217. PAT. RACK EASEL, NO. 221. PAT. FOLDING EASEL, NO. 222.

No. 214. Frost & Adams' Black Walnut Rack Easel, same as No. 221, without Base, ... $8.00

No. 215. Frost & Adams' Black Walnut, Upright Easel, with Patent Ratchets for regulating Shelf, ... $15.00

No. 216. Frost & Adams' Black Walnut Easel, with Patent Ratchets and Brace, ... $6.00

No. 217. Frost & Adams' Black Walnut Easel, with Patent Brace, and either style of Shelf, No. 1 or No. 2, ... $4.25

No 218. The same as No. 217, without Patent Brace, ... $4.00

No 219. The same as No. 218, in Pine, ... $2.50

No. 220. The same as No. 219, with Patent Brace, ... $2.75

No 221 Frost & Adams' Black Walnut Rack Easel, with Base on Castors, and Patent Ratchets, ... $9.50

No 222. Frost & Adams' Black Walnut, Folding Easel, with Patent Brace, ... $2.25

No 222*a*. The same as No. 222, with Cross Bar, and Patent Sliding Shelf. $3.50

No. 222*b*. The same as No. 222*a*, in Pine, ... $2.25

No. 223 The same as No. 222, without Patent Brace, ... $2.00

No 224. The same as No. 222, in Pine, with Patent Brace. $1.75

No. 225. The same as No. 224, without Patent Brace, ... $1.50

NOTE.—The Easels Nos. 208, 214, 215, 216, 221 have the patent combination of ratchets, pawls and lever for regulating height of shelf. This combination is of iron, very light, firm and durable.

The Easels Nos. 214, 216, 217, 222 222*a*, 222*b* have the patent brace applied in different ways. The need of some support of this kind has long been felt, especially in light Easels, where a slight blow upon the rear leg, or an accidental knock against the Easel would cause it to spread apart or topple over. This brace obviates all difficulties of this kind, will brace the Easel firmly at any angle, and does not interfere with closing it together.

Letters Patent have been granted for above improvements under date of June 5th, 1877, and May 27th, 1879.

French Studio Easels.

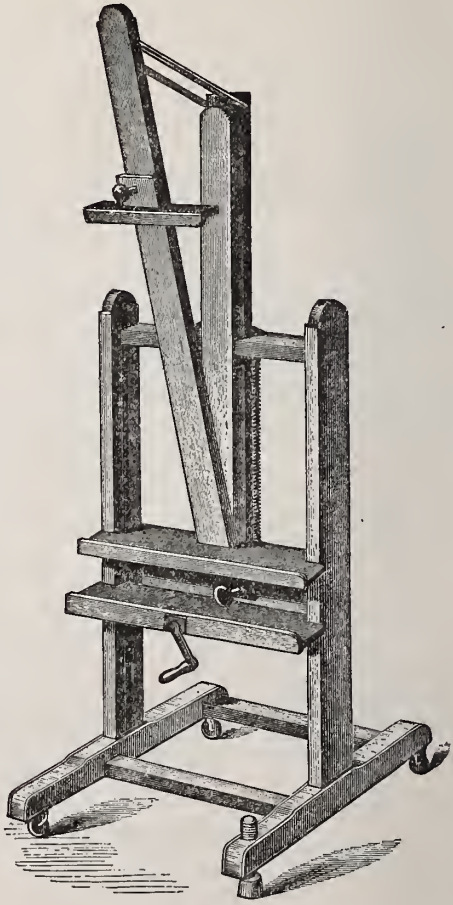
No. 226 French Studio Easel, Black Walnut, with Iron Screw and Crank for raising Shelf, 25 × 64 inches, ... $45.00

No. 227 French Studio Easel, Black Walnut, with Iron Screw and Crank for raising Shelf. with System of Incline, 25 × 64 inches, . $50.00

No. 228 Double or Reversible Easel, the same as No. 227 except that it has an Extra Shelf on the opposite side, and the manner of raising the Shelves is by the Patent Combination of Ratchets, Pawls and Lever. One side of Easel can be inclined like No. 227, ... $35.00

NOTE.—The Upright Easel, No. 215, and the French Studio Easels, should either of them be required for use upon an uneven floor, can be leveled by a thumb-screw attached to the front, right-hand castor.

Any of the French Studio Easels, described above, can be furnished at much less cost by using the patent combination of ratchets, pawls, and lever, instead of the iron screw and crank. for regulating height of shelf.



FRENCH STUDIO EASEL WITH INCLINE, NO. 227.

Sketching Umbrellas and Seats.

SQUARE FOLDING SEAT. CLUB SEAT.

French Sketching Umbrellas.

No. 229.	With Cane Mountings, Jointed Stick, 28 inches.	$8.50
	" " " 30 "	9.50
	" " " 36 "	10.50
	" " " 38 " extra quality,	15.00

For American Sketching Umbrellas and Sketching Staff, No. 758, see page 151.

French Sketching Seats.

No. 230.	Club Seat, 1st quality,	$2.25
	" 2d "	2.00
	Cane Seat, 2d quality,	2.25

American Sketching Seats.

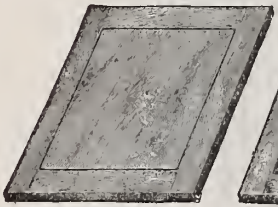
No. 231.	Club Seat, Light,	$1.00
	Cane Seat,	1.50
	Square Folding Seat, Linen Cover,	1.00
	" " Carpet "	1.50
	" " Canvas "	.40
	" " " " with Back,	.50

French Mahl Sticks.

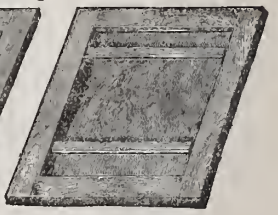
No. 232.	White Wood, 30 to 40 inches long,	.20
	Stained and Varnished, 30 to 40 inches long,	.30
	Jointed Wooden, Brass Ferrules,	.75
	Bamboo, 30 to 40 inches,	.30

Drawing Boards, &c.

Framed Drawing Boards.



FRONT VIEW.

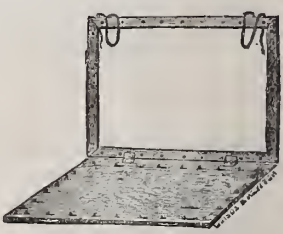


BACK VIEW.

No. 233.	Imperial,	22 × 30 inches,	$2.25
	Half Imperial,	16 × 22 "	1.75
	Quarter "	11 × 16 "	1.50

NOTE.—The frames of the above Boards are made of hard wood, the panels of pine, all from thoroughly seasoned stock

PLAIN DRAWING BOARD, NO. 234.



MAHOGANY SKETCHING BOARD, NO. 235.

Plain Drawing Boards.

No. 234.

Double Elephant, 28×41,	$2.00	Half Imperial, 16×22	$ .90
Imperial, 23×31,	1.25	Half Royal, 14×18,	.80
Royal, 18×24,	1.00	Quarter Imperial, 11×16,	.60

Winsor & Newton's Mahogany Sketching Boards.

NOTE.—A very light and portable contrivance, being a thin Mahogany Board with iron pins inserted, over which several sheets of damped paper can be placed; and a slight frame with pin-holes being then shut down upon them, they are firmly held while drying, and when dry. The sheets of paper are thus strained ready for use, with great facility and cleanliness.

No. 235.	Clamped, Quarter Imperial, 15 × 11 inches,	$2.50
	" Half " 22 × 15 "	4.75
	Best Framed, Brass Bound, Quarter Imperial,	3.38
	" " Half "	5.50

Manikins, or Lay Figures.

No. 236.	6 inch, Hard wood,	$1.50
	9 " "	2.00
	12 " Pine Wood,	2.00
	18 " "	4.00
	24 " "	6.00
	30 " "	9.00
	36 " "	15.00
	42 " " Fingers Moveable,	28.00

Palettes for Oil Painting.

		Oiled Mahogany.	Polished Mahogany.	Oiled Walnut.	Polished Walnut.	Polished Satin Wood.
No. 237	9 inch,	.30	.60	.30	.60	.65
	10 "	.35	.70	.35	.70	.75
	11 "	.38	.80	.38	.80	.85
	12 "	.40	.90	.40	.90	.95
	13 "	.40	1.00	.40	1.00	1.05
	14 "	.45	1.10	.45	1.10	1.10
	15 "	.50	1.20	.50	1.20	1.20
	18 "	.90	1.40	1.00	1.40	1.50

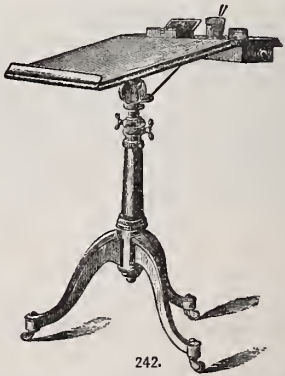
Rubens' Palette, 26 inch, $2.50; Leaded and Balanced, ... $3.00

French Sketching Boxes.

Made of Walnut, for Landscape Painting, Interior Fitted in Tin, with Palette, Oil Bottles, &c.

No. 238.	Size, 14 × 17 inches,	. . . . .	$5.50
	" 11½ × 15 "	. . . . .	4.75
	" 10½ × 14 "	. . . . .	4.50
	" 6½ × 10¼ "	Fortiny Thumb-Hole Box, . . .	5.25
	" 5¾ × 9½ "	" " " . . .	4.25

Patent Adjustable Drawing Table.



242.

NOTE.—This Table is designed for Draughtsmen and Artisans generally. It can be raised to any convenient height, either for sitting or standing; and can be readily fixed at any desired inclination, while the instrument shelf and drawers will always remain level. The top can be allowed to rotate, if desired, or firmly fastened.

No. 239. Drawing Table, Plain, Soft Wood Top, 22 × 24 inches, Iron Stand, no Instrument Shelf, suitable for schools, shops, etc., $8.00

No. 240. Drawing Table same as No. 239, with Instrument Shelf 7 × 19 inches, Iron Stand, no Drawers, ... $9.00

No. 241. Drawing Table, Black Walnut Top 22 × 26 inches, Instrument Shelf 7 × 26 inches, Iron Stand, no Drawers, ... $10.00

No. 242. Drawing Table, Black Walnut Top 22 × 26 inches, Instrument Shelf 7 × 26 inches, Two Instrument Drawers, Ornamented Stand Mounted on Castors, ... $12.00

No. 243. Same as No. 242, with extended Lever for adjusting inclination of Top, ... $13.00

No. 244. Same as No. 242, Top of Selected, Polished Walnut, Iron Stand, Bronzed and tastefully ornamented, ... $15.00

FROST & ADAMS CATALOGUE.

SECTION VIII.

SUNDRIES,

COMPRISING

CHINAWARE, GLASS, IVORY PALETTE KNIVES, BURNISHERS, STEEL PENS, SPONGE, GLUE, FIXATIF ROUGET, &c.

Winsor & Newton's Chinaware, &c.

Palettes.

OVAL.

OBLONG.

No. 245.

3 in. Oval or Oblong,		.15	7 in. Oval or Oblong,		.40	10 in. Oval or Oblong,		.65
4 in. "	"	.25	8 in. "	"	.45	11 in. "	"	.80
5 in. "	"	.30	9 in. "	"	.55	12 in. "	"	.95
6 in. "	"	.35						

Square Divided Flat Tiles.

No. 246.

3 Square,	.30	9 Square,	.65
6 "	.45	12 "	.75

Divided Slants and Centre Slants.

No. 247.

3 Divisions,	.20	6 Divisions,	.50
4 "	.35	8 "	.65
5 "	.45	12 "	.85

No. 248. Centre Slant, ... 35

Slant Well Slabs.

No. 249. Box or 3 Well Slabs, ...30
5 Well Slabs, ...65

Round Slant and Basin.

No. 250. Basin for Architects' Offices, etc., ... $1.25

Indian Ink and Color Slabs

No. 251.

No. 1 Ink Slab,	.15	No. 11 Ink Slab.	.35
4 "	.25	11½ "	.45

Nests of Cabinet Saucers.

No. 252.	No. 1,	per set,	.60
	2,	"	.70
	3,	"	.80
	Extra Large Size,	"	1.00

Round Tinting Saucers.

No. 253.

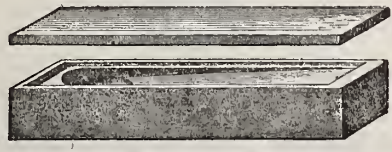
1 inch,	.03	2½ inch,	.06
1½ "	.04	3 "	.07
2 "	.05	4 "	.08

Ink Saucer.

No. 254. Frost & Adams' Ink Saucer. Square, with Glass Cover, .50

NOTE.—These Ink Saucers are made of Slate, the surface of which presents just the right grain for grinding the ink smoothly. The cover is of plate glass, ground to a joint.

Patent Ink Slab.



No. 255.	Keuffel & Esser's Patent Ink Slab, with Cover, 1¾ × 4½ inches,	.50
	" " " " " 2⅛ × 5¼ "	.60

Winsor & Newton's Plain Flat Tiles.

No. 256.	6 inch Square,	.30
	8 "	.40
	10 "	.65
No. 257.	3½ × 2¼ inches, Rough or Unglazed (Bartholomew's),	.20
	2½ inch Saucers (Woolwich),	.06

Various patterns of Tiles in stock, not enumerated in this Catalogue.

Glass.

Ground Glass Slabs.

No. 258.	Glass Slab, 6 × 6 inches,	.70
	" 8¼ × 8¼ "	1.00
	" 11 × 11 "	1.75

Glass Mullers.

No. 259.

1 inch diameter,	.15	2 inches diameter,	.35
1¼ "	.25	2¾ " per lb.,	.70

Reading Glasses.

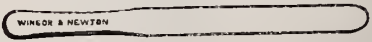
No. 259½. German Silver Rim, Ebonized Handle,

1½ inches diameter,	.75	2¼ inches diameter,	$1.50
1¾ "	1.00	2¾ "	1.75
2 "	1.25	3 "	2.25

Water Glasses.

No. 260.	Artists' Water Glass, 2¾ inch diameter,	.15
	" " 3¼ "	.25
	" " 3¾ "	.35
	" " 4¼ "	.45
No. 261.	Tumblers with Heavy Bottoms, for Architects' use, per dozen,	$1.50
	" " " " " each,	.15

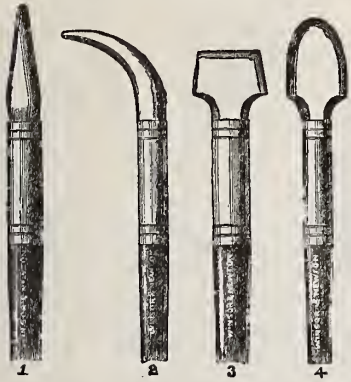
Ivory Palette Knives.



No. 262.

No. 1.	Small Size, .22	No. 3.	Large Size, .60
2.	Middle Size, .45	4.	Extra Large Size, .90

Illuminating Burnishers.



No. 263.	No. 1.	Extra Small Size, Pencil Pointed,	.50
	2.	Round and Curved,	.55
	3.	Flat or Wedged Shape,	.65
	4.	Flat and Round Pointed or Oval,	.65

Steel Pens.

No. 264.	Crow Quill Pen,	Joseph Gillott's,	per doz.,	.60
	Lithographic Pen,	"	"	.60
	Mapping "	"	"	.60
	Lettering "	No. 303 "	"	.10
	French Crow Quill Pen,		"	.50
	Kensington Pens, various sizes,		"	.20

Sponge.

No. 265. Sponges for Artists' use, each, ...10 to .25

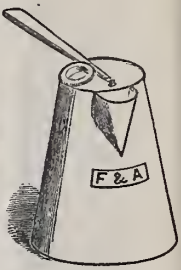
Mouth Glue.

No. 266. Mouth Glue, piece, ...05

Fixatif Rouget.

Blowing Apparatus, No. 267.

Folding Tubular, No. 269 (A.)



Large Tin, No. 269 (B.)

No. 267.	Box containing Apparatus, Liquids, etc.,	$2.20
	Small Bottle Fixatif,	.38
	Large " "	.60
	Bottle Liquid Special,	.20
	Blowing Apparatus, separate,	1.45

American Fixatif.

No. 268.	Frost & Adams Fixatif, Half Pint Bottle,	.35
	" " Pint "	.65
	" " Quart "	1.15

Atomizers,

For Applying Fixatif.

No. 269.	A. Folding Tubular,	.25
	B. Large Tin,	.50
	Favorite,	.50
	A, No. 2. Folding Nickel Plated Tubular,	1.25

Empty Mahogany Slide Cover Boxes.

For Whole and Half Cakes of Water Colors.

No. 270.

12	Whole Cake Box,	.38	12 Half Cake Box, .25
18	" "	.50	18 " " .35
24	" "	.60	24 " .45

FROST & ADAMS' CATALOGUE.

SECTION IX.

WAX FLOWER MATERIALS,

COMPRISING

SHEET WAX, GILT LEAF MOULDS, TIN FLOWER CUTTERS, EXTRA FINE COLORS, WIRE, GLASS SHADES, POND LILY SHADES. WOODEN MOULDING TOOLS, &c.

Sheet Wax.

No. 271.

	Per pkg.		Per pkg.
White,	.10	Tea Rose,	.10
Green,	.10	Purple,	.10
Pink,	.10	Variegated,	.10
Yellow,	.10	Red, Plain or Variegated,	.20
Blue,	.10	Scarlet, Plain or Variegated,	.20

No. 272. Double Thick White, ... per package, .20
Pond Lily, White and Green, ... " .20

NOTE.—Our Wax is warranted the best in the market. Each package contains 12 sheets, excepting the Pond Lily.

The Pond Lily is double in size and thickness of the Single Wax, No. 271, and is suitable for making Wax Crosses, Pond Lilies, &c. Each package contains 6 sheets.

Gilt Leaf Moulds.

Finely Veined and Moulded from Nature.

No. 273.

Azalea,	3 sizes,	.08, .10 and .12		Fuchsia,	3 sizes,	.08, .10 and .12	
Abutilon,	2 "	.10 and .12		Fish Geranium,	3 "	.08, .10 and .12	
Blackberry,	3 "	.08, .10 and .12		Grape,	2 "	.20 and .25	
Butterflies,	3 "	.08, .10 and .12		Heliotrope,	3 "	.08, .10 and .12	
Chestnut,	3 "	.12, .16 and .20		Honey Suckle,	3 "	.10, .12 and .16	
Camella,	2 "	.12 and .16		Ivy,	3 "	.08, .10 and .12	
Currant,	2 "	.08 and .10		Jessamine,	2 "	.08	
Clemestine,	3 "	.12, .12 and .16		Lily of Valley,	2 "	.12 and .16	
Dogwood,	2 "	.12 and .20		Laurestina,	3 "	.08, .10 and .12	
Elm,	2 "	.12 and .16		Maple,	3 "	15, .20 and .25	

No. 273.

Myrtle,	3 sizes,	.08 and .10	Salvia,	3 sizes,	.08, .10 and .12
Orange,	2 "	.08 and .10	Strawberry,	3 "	.08, .10 and .12
Oak,	3 "	.15, .20 and .25	Sassafras,	3 "	.16, .20 and .25
Pond Lily,	2 "	.12 and .16	Verbena,	3 "	.08, .10 and .12
Passion Leaf,	1 "	.12	Violet,	3 "	.08, .10 and .12
Pansy,	2 "	.08 and .10	Willow,	2 "	.12 and .16
Rose Geranium,	2 "	.08 and .10	Wild Cherry	3 "	.12, .16 and .25
Rose,	3 "	.08, .10 and .12	Woodbine,	4 "	.12, .16 and .20
Sumac,	2 "	.08 and .10			

Tin Flower Cutters.

No. 274.

Azalea,	.12	Pink,	.15
Camelia,	.20	Pyrus Japonica,	.12
Clemestine,	12	Pansy,	.15
Dahlia,	.25	Pond Lily,	.30
Easter Lily,	.10	Quaker Lady,	.15
Fuchsia,	.12	Rose,	30
Forget-me-not,	10	Star Flower,	12
Geranium,	.10	Sweet Pea,	15
Honey Suckle,	10	Sweet Alysium,	12
Heliotrope,	10	Tube Rose,	.20
Jessamine,	10	Verbena,	.10
Lily of Valley,	10	Violet,	.12
Moss Rose Calix,	12	Wisteria,	.15
Narcissus,	10	Wild Rose,	.10
Orange,	10		

Extra Fine Colors,

Prepared for Coloring Wax.

No. 275.	Per bottle.		Per bottle.
Analine Pink,	.15	Megilp,	.10
Bt. Sienna,	.10	Naples Yellow,	.10
Bt. Carmine,	.50	Orient Carmine,	.50
Bt. Umber,	.10	Prussian Blue,	.10
Brown Madder,	.50	Pure Scarlet,	.75
Bloom,	.10	Purple (Analine),	.15
Carmine,	.15	Royal Purple,	.15
Carmine, No. 40,	.25	Raw Sienna,	.10
Crimson Lake,	.15	Rose Madder,	.50
Cobalt,	.10	Raw Umber,	.10
Chrome Yellow,	.10	Scarlet Lake,	.15
Chrome Deep,	.10	Scarlet,	.10
Chrome Orange,	.10	Tea Rose,	.10
Chrome Green,	.10	Terre Verte,	.10
Em. Green,	.10	Ultramarine,	.10
Frosting,	.10	Van. Brown,	.10
Ivory Black,	.10	Violet Carmine,	.50
Light Red,	.10	Vermillion,	.10
Lemon Yellow,	.10	White,	.10
Madder Lake,	.50		

Wire.

No. 276.	Spool Cotton, Green and White, ...	per spool,	.10 to .13
	Coil Silk or Cotton, Green and White, ...	per coil,	.10
	Coil, Cotton Covered, Large Wire, ...	"	.10
	Uncovered Wire, ...	"	.05

Glass Shades.

Without Stands.

No. 277.

Inches.	Round.	Oval.	Inches.	Round.	Oval.	Inches.	Round.	Oval.	Inches.	Round.	Oval.
7	.24	.27	28	.84	.94	41½	$1.87	$1.94	55	$3.27	$3.74
9	.24	.27	28½	.87	.97	42	1.74	2.00	55½	3.34	3.80
10	.24	.27	29	.90	1.00	42½	1.80	2.07	56	3.44	3.87
12	.24	.27	29½	.94	1.07	43	1.87	2.14	56½	3.54	4.00
14	.24	.27	30	.97	1.14	43½	1.94	2.20	57	3.67	4.14
15	.24	.27	30½	1.00	1.17	44	2.00	2.27	57½	3.84	4.27
16	.27	.30	31	1.07	1.20	44½	2.04	2.34	58	4.00	4.40
17	.27	.30	31½	1.10	1.24	45	2.07	2.40	58½	4.17	4.60
18	.27	.30	32	1.14	1.30	45½	2.14	2.44	69	4.34	4.80
19	.30	.34	32½	1.14	1.30	46	2.14	2.47	59½	4.50	5.00
19½	.34	.37	33	1.17	1.34	46½	2.20	2.54	60	4.67	5.20
20	.37	.40	33½	1.20	1.37	47	2.27	2.60	60½	4.84	5.40
20½	.40	.44	34	1.24	1.40	47½	2.30	2.67	61	5.00	5.60
21	.40	.47	34½	1.27	1.44	48	2.34	2.74	61½	5.20	5.84
21½	.40	.50	35	1.27	1.44	48½	2.40	2.80	62	5.40	6.00
22	.44	.54	35½	1.30	1.47	49	2.47	2.87	62½	5.67	6.20
22½	.44	.64	36	1.34	1.50	49½	2.54	2.94	63	5.87	6.47
23	.47	.67	36½	1.37	1.54	50	2.60	3.00	63½	6.07	6.74
23½	.50	.60	37	1.37	1.57	50½	2.67	3.07	64	6.27	7.00
24	.54	.60	37½	1.40	1.60	51	2.74	3.14	64½	6.47	7.34
24½	.54	.64	38	1.44	1.64	51½	2.80	3.20	65	6.67	7.67
25	.57	.67	38½	1.44	1.67	52	2.87	3.27	65½	6.87	8.00
25½	.60	.70	39	1.47	1.70	52½	2.94	3.34	66	7.07	8.34
26	.67	.74	39½	1.50	1.74	53	3.00	3.40	66½	7.34	8.67
26½	.70	.77	40	1.54	1.77	63½	3.07	3.47	67	7.67	9.00
27	.74	.80	40½	1.57	1.84	54	3.14	3.54	67½	8.00	9.34
27½	.77	.87	41	1.60	1.87	54½	3.20	3.64	68	8.34	9.67

Pond Lily Shades.

With Looking Glass Stands.

No. 278.

No. 22,	5½ inch,	$1.30	No. 36,	9 inch,	$3.00
24,	6 "	1.40	40,	10 "	3.65
28,	7 "	1.80	44,	11 "	4.50
32,	8 "	2.35	48,	12 "	5.50

No. 279. Round Walnut and Black Stands, ... per inch, .08
Oval " " . . . . " .12

To find the inches in a shade or number, calculate as follows:
ROUND SHADES,—Add the height to three times the diameter.
OVAL SHADES,—Add three inches to once the height and once the breadth and twice the length.

Wooden Moulding Tools.

No. 280. Rose, Rosewood, ...10
Lily of Valley, Rosewood, ...10
With two Knobs, " 15
" " Whitewood, ...10
Extra of different patterns, Rosewood, ...20 to .50

Miscellaneous.

No. 281. Curling Pins, each, ...05
No. 282. Moss, per bunch, ...25
No. 283. Sprig Moss, per package, ...05
No. 284. Arrow Root, ¼ lb. package. 17
No. 285. Stamens, per bunch, ...05
No. 286. Rose Cups, per doz., ...06
No. 287. Brushes (for Veining), each, ...05 to .20
No. 288. Brushes (for Coloring), each, ...08
No. 289. Palettes, each, ...20 to .50
No. 290. Palette Knives, Small, each, ...25
No. 291. Lessons in Modelling Wax, by J. H. Mintorn, ... $1.50
No. 292. The Art of Modelling Flowers in Wax, by George Worgan, . . . $1.00
No. 293. The Art of Modelling and Making Flowers and Fruit, by Charles Pepper and Madam Elise, ...75
No. 294. Wooden Crosses, Harps, Lyres, etc., each, ...25 to $1.00
No. 295. Chenille, for Glass Shades, in suitable Colors, per yard, .20 and .30
No. 296. Fayal Baskets, for Moss and Wax Flowers, White and Colored, the best in the market, each, ...06 to $2.00

SECTION X.

TEXT BOOKS ON ART,

MECHANICAL DRAWING, ALPHABETS, &c

Winsor & Newton's

Handbooks on the Fine Arts.

No. 297. Artistic Anatomy of Cattle and Sheep. By B. Waterhouse Hawkins, F.L.S., F.G.S., ...40
Artistic Anatomy of the Dog and Deer. By B. Waterhouse Hawkins, F.L.S., F.G.S., ...40
Artistic Anatomy of the Horse. By B. Waterhouse Hawkins, F.L.S., F.G.S., ...40
Artistic Anatomy of the Human Figure. By Henry Warren, K.L., .40
Artistic Treatise on the Human Figure. By Henry Warren, K.L., ...40
Art of Botanical Drawing. By F. W. Burbidge, ...40
Art of Figure Drawing. By C. H. Weigall, ...40
Art of Flower Painting. By M. Duffield, ...40
Art of Landscape Painting in Oil Colors. By W. Williams, . .40
Art of Landscape Painting in Water Colors. By Thomas Rowbotham and Thomas L. Rowbotham, ...40
Art of Marine Painting in Oil Colors. By J. W. Carmichael, . .40
Art of Marine Painting in Water Colors. By J. W. Carmichael, .40
Art of Miniature Painting. By Charles W. Day, ...40
Art of Mural Decoration. By T. G. Goodwin, B.A., ...40
Art of Painting and Drawing in Colored Crayons. By Henry Murray, F.S.A., ...40
Art of Portrait Painting in Oil Colors. By Henry Murray, F.S.A. .40
Art of Portrait Painting in Water Colors. By M. Merrifield, .40
Art of Sketching from Nature. By Thomas Rowbotham and Thomas L. Rowbotham, ...40
Art of Transparent Painting on Glass. By Edward Groom, . .40
Art of Wood Engraving. By Thomas Gilks, ...40
Drawing Models and their Uses. By J. D. Harding, ...40
Elements of Perspective. By A. Penley, ...40
Guide to Painting Photographic Portraits. By A. N. Rintoul, . .80
Half-Hour Lectures on Drawing and Painting. By Henry Warren, K.L., ...40
Hints for Sketching in Water Colors from Nature. By Thomas Hatton, ...40

No. 297. Instructions for Cleaning, Repairing, Lining and Restoring Oil Paintings. By Henry Mogford, F.S.A., ...40
Manual of Illumination. By J. J. Laing, ...40
Companion to the above. By J. J. Laing, ...40
Principles of Coloring in Painting. By Charles Martel, . .40
Principles of Form in Ornamental Art. By Charles Martel, .40
System of Water Color Painting. By A. Penley, ...40
Transparency Painting on Linen. By W. Williams, . . .40
Art of Etching Explained and Illustrated, ...40
The Art of Painting on China, with a chapter on Terra Cotta Painting in Oil, ... 40
Rules of Perspective, with letter of approval from Prof. John Ruskin, ...40

Handbooks on the Fine Arts, &c.

No. 298. Art of Wood Engraving. By Wm. A. Emerson, ...50
China Painting. By John C. L. Sparks, ...45
Designs and Instructions for Decorating Pottery, ...50
Flaxman's Outline Designs for Decorating Pottery, . . . 1.00
Guide to Animal Drawing. By C. H. Weigall, ...40
Guide to Figure Drawing. By G. E. Hicks, ...40
Guide to Figure Painting in Water Colors. By Sidney T. Whiteford, ...40
Guide to Flower Painting in Water Colors. By G. Rosenberg, . .40
Guide to Levelling and Surveying. By W. Pease, ... 40
Guide to Light and Shade Drawing. By Mrs. M. Merrifield, . 40
Guide to Miniature Painting and Coloring Photographs. By J. S. Templeton, ...40
Guide to Oil Painting. Part I. By J. S. Templeton, ...40
Guide to Oil Painting. Part II. (Landscape from Nature.) By A. Clint, ...40
Guide to Painting on Glass. By H. Bielfeld, ...40
Guide to Pencil and Chalk Drawing. By G. Harley, ...40
Guide to Pictorial Art. By H. O'Neil, ...40
Guide to Pictorial Perspective. By B. R. Green, ...40
Guide to Sketching from Nature in Water Colors. By L. C. Miles, .40
Guide to Water Color Painting. By R. P. Noble, ...40
Hints for Pupils in Drawing. By Helen M. Knowlton, . . . 1.00
Hints for Sketching Trees from Nature in Water Colors. By Thomas Hatton, ...40
Hints on Sketching from Nature. Part I. By N. E. Green, . . .40
" " " " II. " " . . .40
" " " " III. " " . . .40
Hunt's Talks on Art, ... 1.00
Manual of Color, with a Catechism. By R. Redgrave, R.A., .40
On the Materials Used in Painting, with Remarks on Varnishing and Cleansing Pictures. By Charles Martel, ...40
Principles of Perspective. By Henry Lewis, B.A., ...40
Guide to Crayon and Charcoal Drawing. By J. B. Crocker, . .35
Handbook on Lustra and Kensington Painting, ...125

Text Books on Fine Arts.

No. 299. Art Recreations. By Marion Kenille, ... $2.00
Bacon's Theory of Color, ... 1.25
Barnard's Handbook of Foreground and Foliage, ... 2.50
" Landscape Painting in Water Colors, ... 9.00
" Sketching from Nature, ... 9.00

No. 299.	Cavo on Color,	$1.00
	" on Drawing,	1.00
	Cassell's Copy Books,	.25
	" Free-Hand Drawing Book,	1.50
	Chapman's American Drawing Book,	6.00
	Dolby's Architectural Drawing Book, 6 Nos., each,	.30
	" Marine and River Studies, 6 Nos., "	.30
	Field's Chromotography,	6.75
	Gauci's Studies of Trees, 12 Plates, each,	.35
	Goodall's Portfolio Studies, 7 Plates, "	.45
	Green's Advanced Lessons, 6 Plates, "	.45
	" Elementary Lessons, 24 Plates, "	.16
	" First Studies of Landscape, in 6 Nos., "	.16
	" Illustrations of the 5 Orders of Architecture, 6 Plates, "	.45
	" Leaves from Sketch Book, in 6 Nos., "	.30
	" Sepia Drawing Lessons, 6 Nos., "	.30
	Harding's Elementary Art,	10.50
	" Guide and Companion,	5.50
	" Lessons on Art,	6.50
	" Lessons on Trees,	6.50
	Harper's Advanced Studies of Landscape Scenery, 12 Plates, each,	.30
	Harper's Easy Course of Landscape Drawing Lessons, 6 Nos., each,	.16
	Herme's Copy Books each,	.20
	Hick's Human Figures,	1.20, 1.75, 2.40
	Hints to Young Painters in Portraiture. By Thos. Sully,	1.00
	Leitch's Studies in Sepia,	2.50
	" Studies in Sepia and Neutral Tint,	2.50
	" Studies in Water Color,	2.50
	Little Artists,	.15
	Little Painters,	.25
	Noble's Progressive Lessons in Water Color Painting, 12 Plates,	4.25
	Principles of Perspective. By Albert Thompson.	1.25
	Razo's Elementary Drawing Book, 12 Nos., each,	.16
	Ropes' Linear Perspective,	1.00
	Rowney's Various, in 20 Plates, for Crayon Studies, each,	.45
	Sketching from Nature in Water Colors. By Aaron Penley,	7.50
	Stark's Drawing Book of Animals, 6 Nos., each,	.30
	Students' Drawing Cards, per set,	.75
	Syer's Advanced Drawing Book, 6 Nos., each,	.80
	" Early Landscape Drawing Book, 6 Nos., "	.30
	" Portfolio Studies, 6 Plates, "	.45
	" Progressive Drawing Book, 6 Nos., "	.16
	" River Scenes and Shipping, 6 Nos., "	.60
	" Sketch Book, in 3 Parts, "	1.20
	Walker's Animals and Figures,	3.25
	Weigall's Drawing Book of Animals, 12 Nos., each,	.16
	Youths' Drawing Book,	.25

NOTE.—A large variety of Studies in separate copies of Heads, Figures, Groups, Animals, Landscapes, etc., both Plain and Colored, from 15 cents to $3.00 each. Also a long list of Copy Books not mentioned herein.

Text Books on Mechanical Drawing, &c.

No. 300.	Cassell's Building and Construction,	$1.00
	Color,	1.50

No. 300.	Cassell's Drawing for Cabinet Makers,	$1.50
	" Drawing for Carpenters and Joiners,	1.75
	" Drawing for Machinists,	2.00
	" Drawing for Mechanics,	1.00
	" Freehand Drawing,	3.00
	" Gothic Stone Work,	1.50
	" Linear Drawing,	1.00
	" Models,	1.50
	" Perspective,	1.50
	" Practical Drawing,	2.50
	" Projection,	1.00
	" Systematic Drawing and Shading,	1.00
	Decorative Design,	3.50
	Gillespie's Practical Treatise on Surveying,	3.00
	Haswell's Engineers' and Mechanics' Pocket-Book,	4.00
	Mahan's Elementary Course of Civil Engineering,	4.00
	" Industrial Drawing; comprising the Description and Uses of Drawing Instruments, etc.,	3.00
	Minifie's Mechanical Drawing. A Text-Book of Geometrical Drawing, for the use of Mechanics and Schools,	4.00
	Principles of Ornamental Art. By Edward Hulme, F.L.S., F.S.A.,	12.00
	Prof. Walter Smith's Freehand Outline Drawing,	.25
	" " Intermediate,	.15
	" " Mechanical Projection and Drawing,	.25
	" " Model and Object Drawing,	.25
	" " Perspective Drawing,	.25
	" " Plane Geometrical Drawing,	.25
	Prof. Warren's Drafting Instruments,	1.25
	" " Elements of Machine Construction and Drawing,	7.50
	" " Freehand Drawing,	.75
	" " Linear Perspective, Elementary,	1.00
	" " Plane Problems,	1.25
	" " Projection Drawing,	1.00
	Rankine's Civil Engineering,	8.00
	Trautwine's Pocket Edition of Engineers' Measurements,	5.00

Text Books of Alphabets, &c.

No. 301.	Art of Lettering. By A. P. Boyce,	$3.50
	Becker's Ornamental Text-Book,	4.50
	Boyce's Modern Ornamenter and Interior Decorator,	3.50
	Copley's Alphabets, Plain and Ornamental,	3.00
	Dearborn's Ornaments, Scroll, etc.,	2.00
	" Text-Book for Letters,	2.00
	Draughtsman's Alphabets.	2.00
	Gilders' Manual,	.50
	Haney's Book of Scrolls and Ornaments,	1.00
	" Manual of Sign, Carriage and Decorative Painting,	.50
	" New, Cheap Book of Alphabets,	.50
	Painters' Manual,	.50
	Prang's Alphabet, new edition,	5.00
	" State Arms of the Union,	2.00
	Standard Scroll Book,	1.00
	Students' Alphabet,	.25
	Whiting's "	.30

FROST & ADAMS' CATALOGUE.

SECTION XI.

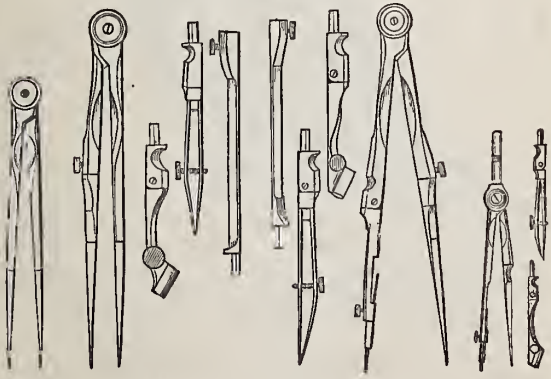
MATHEMATICAL INSTRUMENTS,

COMPRISING

FRENCH, GERMAN, SWISS, ALTENEDER'S, &c.

French Brass Instruments.

For Schools.



305. 314. 316. 318.

No. 305.	Dividers, Screw Joint, 3½ inches long,	25
No. 306.	Dividers, Screw Joint, 4½ inches long,	.30
No. 307.	Dividers, Screw Joint, 5½ inches long,	.38
No. 308.	Dividers, Screw Joint, 6½ inches long,	.45
No. 309.	Dividers, Rivet Head, 4½ inches long,	.20
No. 310.	Dividers, Rivet Head, 5½ inches long,	.30

No. 311. Dividers, Rivet Head, 6½ inches long, ...35

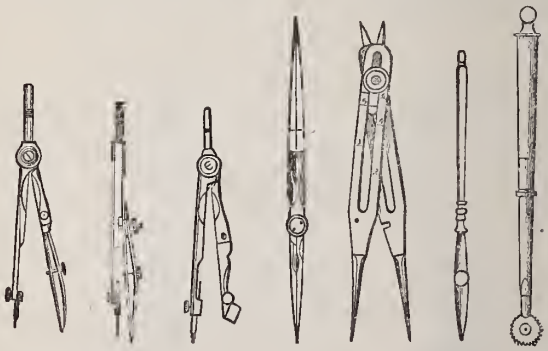
No. 314. Dividers, 4½ inches long, with Pen and Pencil Points, and Lengthening Bar, ...60

No. 315. Dividers, 6 inches long, with Pen and Pencil Points, and Lengthening Bar, ...75

No. 316. Dividers, Needle Point, 4½ inches long, with Pen and Pencil Points, and Lengthening Bar, ...75

No. 317. Dividers, Needle Point, 6 inches long, with Pen and Pencil Points and Lengthening Bar, ... $1.00

No. 318. Dividers, 3 inches long, with Pen and Pencil Points, ...60



319. 320. 321. 322. 323. 325. 326.

No. 319. Bow Pen, without Spring, ...60

No. 320. Bow Pen, with Adjusting Screw and Spring, ...70

No. 321. Bow Pencil, without Spring, ...60

No. 322. Bisecting Dividers, ...60

No. 323. Proportional Dividers, Half Divided, in Case, ... $2.25

No. 324. Drawing Pen, Black Handle, ...20

No. 325. Drawing Pen, Ivory Handle, ...30

No. 326. Roulette for Dotting Lines, with Extra Wheels, ...85

Cases of Brass Drawing Instruments.

For Schools.

No. 348. Wood Box: 4½ inch Dividers, with Pen and Pencil Points, and Crayon Holder, ...60

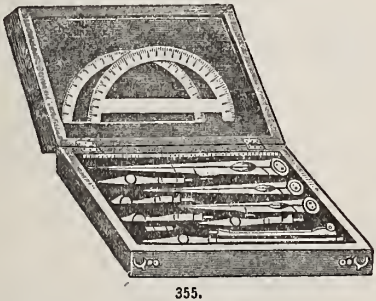
No. 349. Wood Box: 4½ inch Dividers, with Pen and Pencil Points, and Lengthening Bar; Ebony Handle Drawing Pen; Divided Wood Rule, ...90

348.

No. 350. Wood Box: 4½ inch Dividers, with Pen and Pencil Points, and Lengthening Bar; 3½ inch Plain Dividers; Drawing Pen; Horn Protractor; Divided Wood Rule, ... $1.00

No. 351. Rosewood Box: 5½ inch Dividers, with Pen and Pencil Points, and Lengthening Bar; 4½ inch Plain Dividers, Drawing Pen; Horn Protractor; Divided Wood Rule, ... $1.50

No. 355. Rosewood Box: 6 inch Dividers, with Pen and Pencil Points, and Lengthening Bar; 4½ inch Plain Dividers; 3½ inch Dividers, with Pen and Pencil Points; Drawing Pen; Brass Protractor; Horn Protractor: Divided Wood Rule, ... $2.50



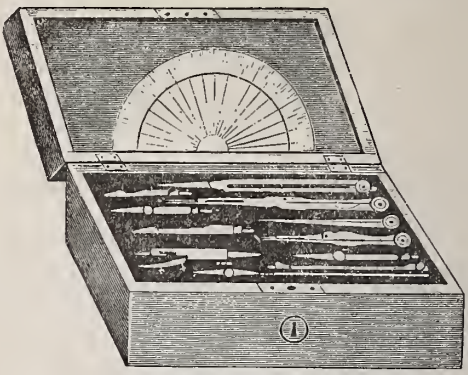
355.

No. 356. Same as No. 355, but with the Instruments set in a Tray, so that Colors, etc., may be put below, ... $3.25

No. 357. Rosewood Box: 6 inch Needle Point Dividers, with Pen and Pencil Points, and Lengthening Bar; 4½ inch Plain Dividers; 3½ inch Needle Point Dividers, with Pen and Pencil Points; Drawing Pen; Brass Protractor; Horn Protractor; Divided Wood Rule, ... $3.25

No. 358. Same as No. 357, but with Lock and Key, and the Instruments set in a Tray, so that Colors may be put below, ... $3.75

No. 362. Rosewood Box, with Lock and Key, the Instruments set in a Tray, so that Colors, etc., may be put below: 6 inch Needle Point Dividers, with Pen and Pencil Points, and Lengthening Bar; 4½ inch Plain Dividers; 3½ inch Needle Point Dividers, with Pen and Pencil Points; Spring Bow Pen, with Needle Point; Drawing Pen; Brass Protractor; Horn Protractor; Divided Wood Rule, ... $4.25



364.

No. 364. Same as No. 362, with Proportional Dividers, Wood Triangle and Irregular Curves; without Brass Protractor, ... $7.50

German Instruments,

German Silver, Steel Points.

365.

369.

371 1-2.

372.

No. 365. Dividers, Steel Joints, 4 inches long, ...70

No. 366. Dividers, Steel Joints, 5 inches long, ...80

No. 367. Dividers, Steel Joints, 6 inches long, ... $1.00

No. 368. Dividers, Steel Joints, 7 inches long, ... $1.25

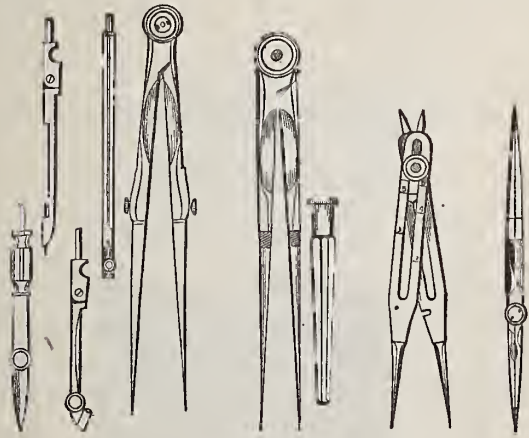
No. 369. Dividers, Steel Joints, 4 inches long, with Hair Spring, . . $1.25

No. 370. Dividers, Steel Joints, 5 inches long, with Hair Spring, . . $1.50

No. 371. Dividers, Steel Joints, 6 inches long, with Hair Spring, . . $1.75

No. 371½. Plain Dividers, 3 inches long, with Handle, ...75

No. 372. Dividers, 3 inches long, with Pen, Pencil and Needle Points, . $2.35



373. 374. 376. 377.

No. 373. Dividers, Steel Joints, 6 inches long, with Pen, Pencil and Needle Points, and Lengthening Bar, ... $3.00

No. 374. Dividers, Steel Joints, 5 inches long, with Shields for the Pocket, $1.50

No. 376. Proportional Dividers, 6½ inches long, finely divided for lines and circles, ... $2.50

No. 377. Bisecting Dividers, ... $1.00

No. 378. Spacing Dividers, all Steel, with Spring and Adjusting Screw, . $1.25

No. 379. Pocket Dividers, with Folding Pen and Pencil Points, . . . $5.25

No. 380. Bow Pencil, all Steel, with Spring and Adjusting Screw, . . $1.50

No. 381. Bow Pen, all Steel, with Spring and Adjusting Screw, . . . $1.50

378.

380.

381.

382.

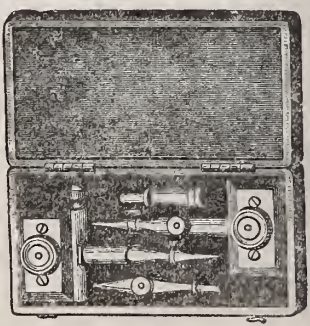
383.

379.

No. 382. Bow Pen, with Spring and Adjusting Screw, . $1.62

No. 383. Bow Pen, with Spring, Adjusting Screw, and Pencil Point, $2.50

389.


385.

393.

No. 385. Furniture for Beam Compass, with Adjusting Screw, in Morocco Case, ... $6.50

No. 387. Drawing Pen, Medium Finish, Hinge to Pen, . . .40

No. 388. Drawing Pen, Fine Finish, Hinge to Pen, ...50

No. 389. Drawing Pen, Fine Finish, Hinge and Pin, ...70

No. 391. Drawing Pen, Fine Finish, Hinge to Pen, German Silver Points, for Red Ink, ...75

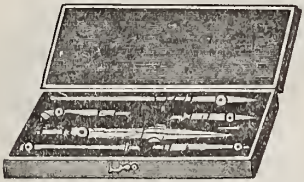
No. 393. Double Drawing Pen, or Railroad Pen, for Parallel Lines, . . $2.75

No. 394. Roulette, for Dotting Lines, ...75

Cases of Fine German Silver Instruments,

For Engineers, Architects, and Machinists.

No. 400. Morocco Box: 5½ inch Dividers, with Pen and Pencil Points; Drawing Pen, No. 388. $3.00



401.

No. 401. Morocco Box: 3 inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar, No. 372; Drawing Pen, No. 389, $4.50

No. 402. Morocco Box: 5½ inch Dividers, with Pen and Pencil Points; 5 inch Plain Dividers, No. 366; Drawing Pen, No. 388, . . $3.50

No. 403. Same as No. 402, with addition of Needle Points and Lengthening Bar to 5½ inch Dividers, . . $5.00

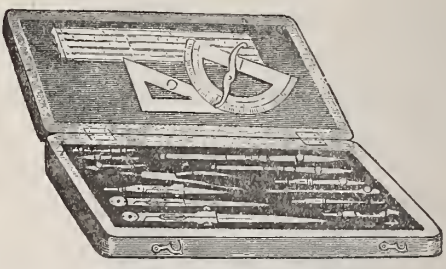
405.

No. 405. Morocco Box: 5½ inch Dividers, with Pen and Pencil Points, and Lengthening Bar; 5 inch Plain Dividers, No. 366; 3 inch Dividers, with Pen and Pencil Points; Drawing Pen, No. 389; Protractor, No. 519; German Silver Square, ... $8.50

No. 406. Morocco Box: 5½ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar, No. 373; 5 inch Plain Dividers, No. 366; Spring Bow Pen, No. 382; Drawing Pen, No. 389, . $6.50

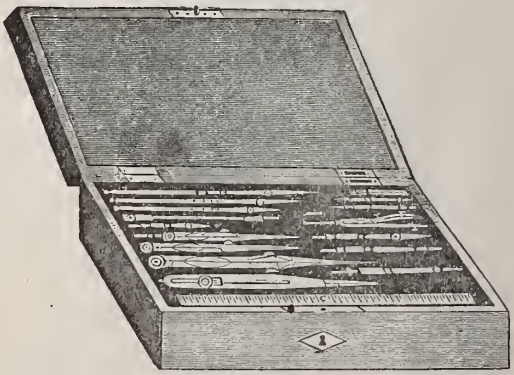
No. 407. Morocco Box: 5½ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar, No. 373; 5 inch Plain Dividers, No. 366; 3 inch Dividers, with Pen, Pencil and Needle Points, No. 372; 2 Drawing Pens, No. 389, ... $9.75

No. 408. Same Instruments as No. 407, in Polished Walnut Box, . . $11.75



409

No. 409. Polished Walnut Box: 5½ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar, No. 373; 5 inch Plain Dividers, No. 366; 3 inch Dividers, with Pen, Pencil and Needle Points, No. 372; Spring Bow Pen, with Needle Point, No. 382; 2 Drawing Pens, No. 389, ... $12 50



414.

No. 410. Polished Walnut Box: 5½ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar, No. 373; 5 inch Plain Dividers, No. 366; 5 inch Hair Spring Dividers, No. 370; 3 inch Dividers, with Pen, Pencil and Needle Points, No. 372; Spring Bow Pen, with Needle Point; 2 Drawing Pens, No. 389; German Silver Square; Protractor, No. 619, . . . $15.00

No. 411. Same Instruments as No. 410, set in a Tray, and the Box much larger, with Lock and Key, affording space for extra Instruments or Colors, etc., ... $15.50

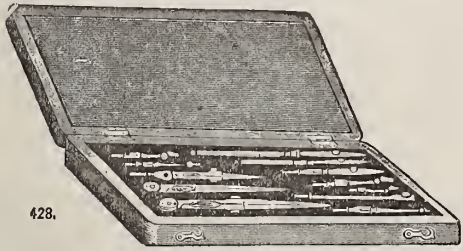
No. 414. Polished Walnut Box, with Lock and Key, and Tray: 6½ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar; 4½ inch Plain Dividers; 4 inch Dividers, with Pen, Pencil and Needle Points; Spring Bow Pen; 2 Drawing Pens; Proportional Dividers; Horn Protractor; 2 Wood Triangles and 1 Wood Curve; Ivory Rule, ... $27.00

Cases of Second Quality German Silver Instruments.

No. 425. Morocco Box: 5¼ inch Dividers, with Pen and Pencil Points; Drawing Pen, ... $2.00

No. 426. Morocco Box: 5½ inch Dividers, with Pen and Pencil Points, and Lengthening Bar; 5 inch Plain Dividers; Drawing Pen, $3.00

No. 427. Morocco Box: 5¼ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar; 5 inch Plain Dividers; 2 Drawing Pens, ... $4.00



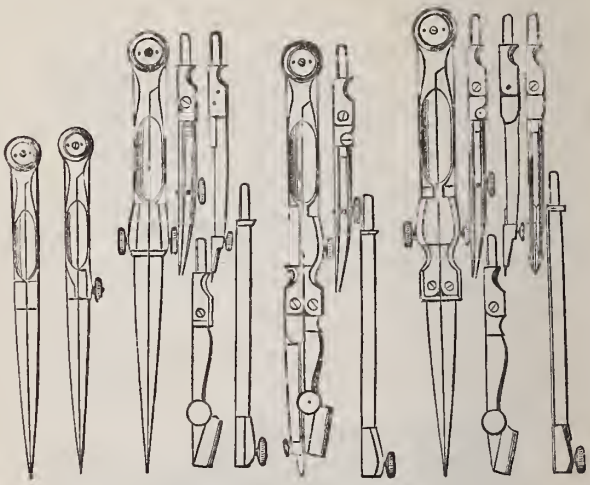
428.

No. 428. Morocco Box: 5¼ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar; 5 inch Plain Dividers; 4 inch Dividers, with Pen, Pencil and Needle Points; 2 Drawing Pens, ... $6.50

No. 429. Morocco Box: 5½ inch Dividers, with Pen, Pencil and Needle Points, and Lengthening Bar; 5 inch Plain Dividers; 4 inch Dividers, with Pen, Pencil and Needle Points; Spacing Dividers, Bow Pen, Bow Pencil, and 2 Drawing Pens, ... $10.00

Kern's Swiss Instruments,

Of Best German Silver and English Steel. Extra Fine Finish.



451. 453. 455. 455 1-2. 456.

No. 451. Plain Dividers, 4½ inches long, ... $1.50

No. 452. Plain Dividers, 5 inches long, ... $1.75

No. 452½. Plain Dividers, 6 inches long, ... $2.50

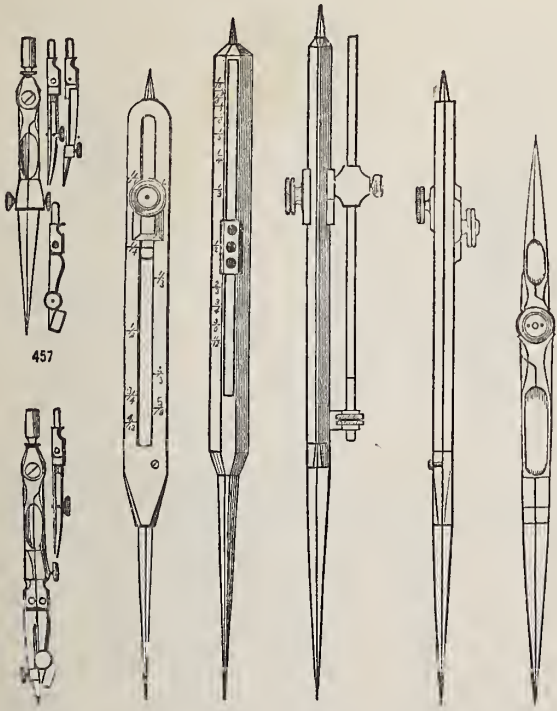
No. 453 Hair Spring Dividers, 4½ inches long, ... $2.25

No. 454. Hair Spring Dividers, 5 to 6 inches long, ... $2.50

No. 455. Dividers, 6½ inches long, with Pen, Pencil and Needle Points, and Lengthening Bar, ... $6.50

No. 455½. Dividers, 6½ inches long, with Fixed Needle Point, Pen and Pencil Points, and Lengthening Bar, ... $6.00

No. 456. Dividers, 6½ inches long, Joints in each leg, with Pen, Pencil and Needle Points, Dotting Pen and Lengthening Bar. . . $9.00



457

457 1-2. 457 3-4. 458. 459. 460. 461.

No. 457. Dividers, 4 inches long, with Pen, Pencil and Needle Points, . $5.00

No. 457½. Dividers, 4 inches long, with Fixed Needle Point, Pen and Pencil Points, changeable, ... $4.50

No. 457¾. Proportional Dividers, 6½ inches long, Finely Graduated for Lines, ... $8.00

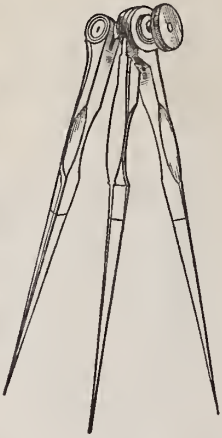
No. 458. Proportional Dividers, Finely Graduated for Lines and Circles, 9 inches long, ... $10.00

No. 459. Proportional Dividers, Finely Graduated for Lines and Circles, 9 inches long, with Micrometer Adjustment, ... $12.00

No. 460. Proportional Dividers, Graduated for Lines, 8 inches long, with Rack Adjustment, ... $10.50

No. 461. Bisecting Dividers, 7½ inches long, ... $4.25

462.



463.

464.

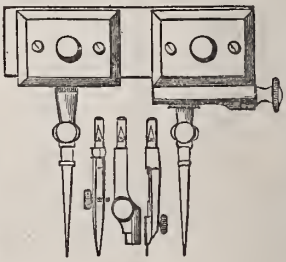
No. 462. Pocket Dividers, 5 to 6 inches long, with Sheath, . . $2.40

No. 463. Triangular Compasses, for taking off three points, $4.25

No. 464. Steel Spacing Dividers, 5 inches long, with Ivory Handle, $2.50

465.

465 1-2.



470 1-2.

471.

No. 465 Steel Spacing Dividers, 3½ inches long, with Ivory Handle, $1.50

No. 465½. Steel Spacing Dividers, 3½ inches long, with Ivory Handle, Needle Points, ... $2.50

No. 470. Furniture for Wood Beam Compasses, in Morocco Box, . . $7.75

No. 470½. Furniture for Wood Beam Compasses, without Morocco Box, . $6.75

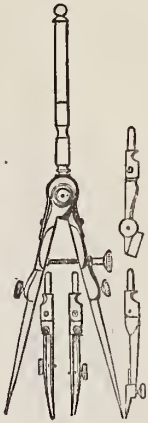
No. 471. Pocket Compasses, to fold, with Points to change, ... $7.50

473.

473 1-2.

474.

475.



476.

No. 473. Spring Bow Pen, all Steel, Ivory Handle, ... $2.00
No. 473½. Spring Bow Pen, all Steel, Ivory Handle, ... $2.40
No. 474. Spring Bow Pen, German Silver, ... $2.00
No. 475. Spring Bow Pen, German Silver, with Pencil Point. . . . $3.00
No. 476. Spring Bow Pen, 4 inches long, with Ivory Handle, Pencil, Needle, and two Pen Points, ... $7.00

477.

478.

478 1-2.

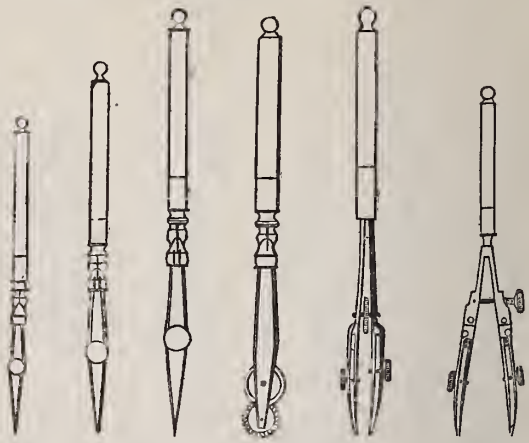
479.

479 1-2.

No. 477. Bow Pen, with Needle Point, and Joint in each Leg, ... $3.00
No. 478. Bow Pencil, with Needle Point, and Joint in each Leg, . . . $3.00
No. 478½. Bow Spacer, with Needle Point, and Joint in each Leg, . . . $3.00

No. 479. Spring Bow Pencil, Ivory Handle, ... $2.00

No. 479½. Spring Bow Pencil, Ivory Handle, and Needle Point, . . . $2.40



480. 481. 482. 483 484. 485.

No. 480. Drawing Pen, 4½ inches long, with Joint and Pin, ... $1.25

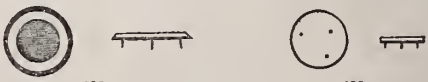
No. 481. Drawing Pen, 5½ inches long, with Joint and Pin, ... $1.40

No. 482. Drawing Pen, 6½ inches long, with Joint and Pin, ... $1.60

No. 483. Dotting Pen, with one Wheel, ... $2.00

No. 484. Railroad, or Double Drawing Pen, ... $3.75

No. 485. Railroad, or Double Drawing Pen, with Joint in each Side, . $3.00



486. 488.

No. 486. Horn Centre, with German Silver Edges, ...40

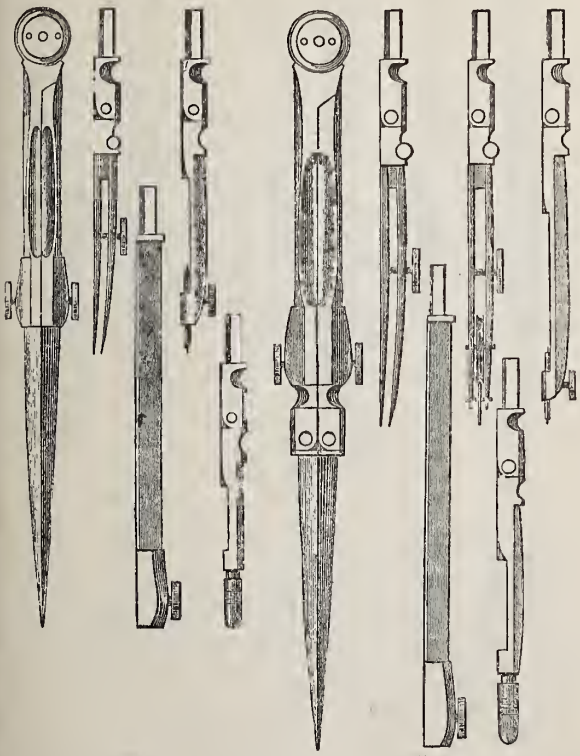
No. 487. German Silver Centre, with Handle, ...30

No. 488. Horn Centre, Plain, ...18

NOTE.—In compiling this Catalogue, we have enumerated only a small selection from our regular stock of Mathematical Instruments in cases, either of the cheaper or of the more expensive kinds; and, therefore, parties who are about supplying themselves with this kind of goods would do well to call and examine what we have in stock.

Superior Swiss Instruments.

Made from Best German Silver and English Steel.

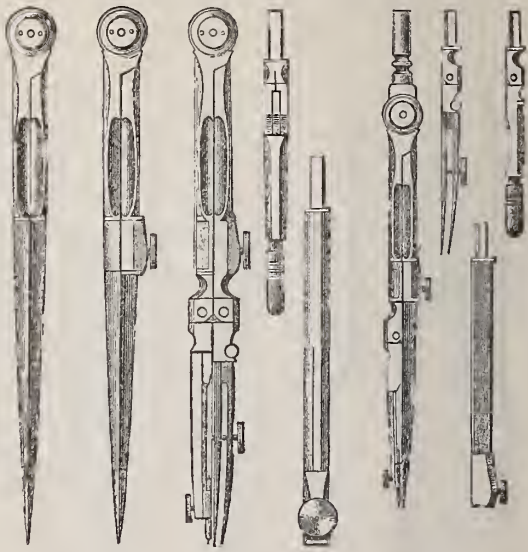


489. 491.

No. 488. Dividers, 6 inches long, with Pen, Pencil and Needle Points, and Lengthening Bar, ... $8.00

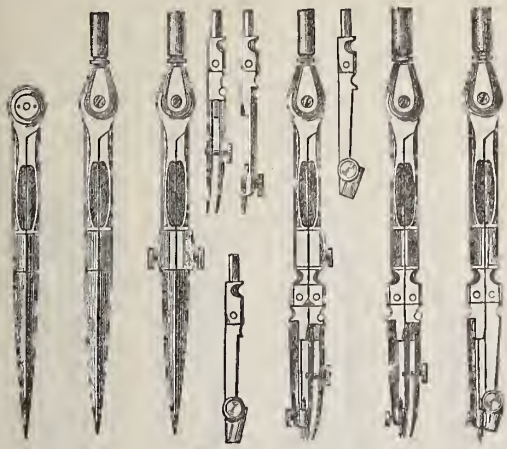
No. 490. Dividers, 6½ inches long, with Joint in each Leg, Pen, Pencil and Needle Points, and Lengthening Bar, ... $9.25

No. 491. Dividers, 7 inches long, with Joint in each Leg Pen, Pencil and Needle Points, Lengthening Bar, and Dotting Pen, . . . $10.75

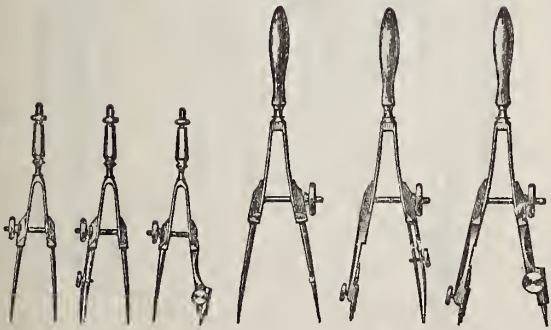


492. 494. 495. 496.

No. 492.	Plain Dividers, 5 inches long,	$2.20
No. 493.	Plain Dividers, 6 inches long,	$2.75
No. 494.	Hair Spring Dividers, 5 inches long,	$3.00
No. 495.	Dividers, 5½ inches long, with Fixed Needle Point, Pen and Pencil Points, and Lengthening Bar,	$7.00
No. 496.	Dividers, 4½ inches long, with Fixed Needle Point, Pen and Pencil Points, and Lengthening Bar,	$7.25
No. 497.	Plain Dividers, 3½ inches long,	$1.75
No. 498.	Plain Dividers, 3½ inches long, with Handle,	$2.25
No. 499.	Dividers, 3½ inches long, with Pen, Pencil and Needle Points,	$4.00
No. 500.	Dividers, 3½ inches long, with Fixed Needle Point, Pen and Pencil Points,	$5.25
No. 501.	Bow Pen, 3½ inches long, with Fixed Needle and Pen Points,	$3.50
No. 502.	Bow Pencil, 3½ inches long, with Fixed Needle and Pencil Points,	$3.50



497. 498. 499. 500. 501. 502.



503. 504. 507. 508.

No. 503.	Minute Bow Dividers, 2½ inches long, 3 in Set, ...	$8.25
No. 504.	Steel Spring Bow Dividers, 3 inches long, with Ivory Handle, .	$2.20
No. 505.	Steel Spring Bow Pen, 3 inches long, with Ivory Handle, . .	$2.50
No. 506.	Steel Spring Bow Pencil, 3 inches long, with Ivory Handle, .	$2.50

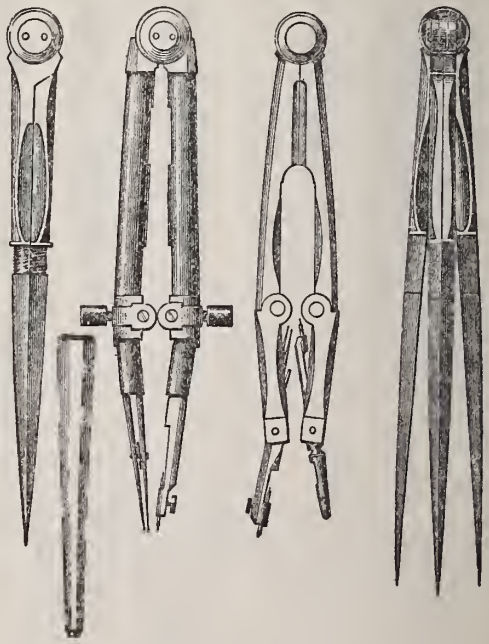
No. 507. Steel Spring Bow Pen, 3 inches long, with Needle Point and Ivory Handle, ... $2.85

No. 508. Steel Spring Bow Pencil, 3 inches long, with Needle Point and Ivory Handle, ... $2.85

No. 509. Steel Spring Bow Dividers, 3½ inches long, with Ivory Handle, $2.60

No. 510. Steel Spring Bow Pen, 3½ inches long, with Needle Point and Ivory Handle, ... $3.00

No. 511. Steel Spring Bow Pencil, 3½ inches long, with Needle Point and Ivory Handle, ... $3.00



512. 513. 514. 515.

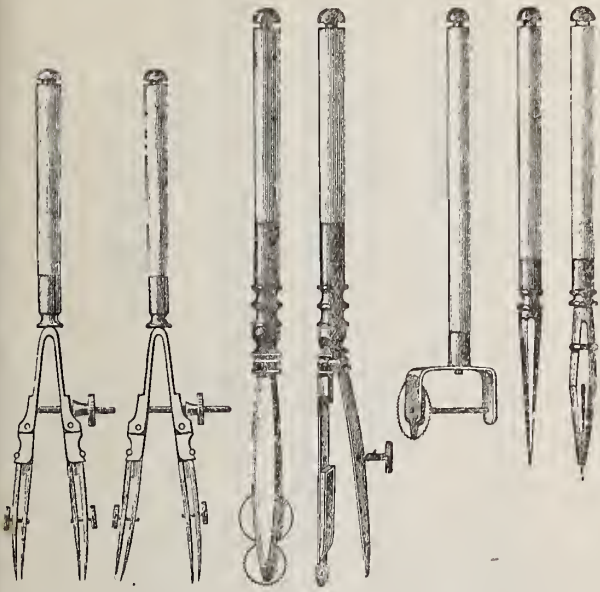
No. 512. Pocket Dividers, 5 inches long, with Sheath, ... $3.00

No. 513. Pillar Compasses, with Handles, Pen and Pencil Points to draw out, forming small Bows if required, ... $9.50

No. 514. Pocket Dividers, with Folding Points for Pocket. $3.75

No. 515. Triangular Dividers, for taking off three points, ... $5.00

No. 516. Tubular Beam Compasses, 18 inches long, 2 Bars, . . . $11.00
No. 517. Tubular Beam Compasses, 24 inches long, 3 Bars, . $13.00
No. 518. Tubular Beam Compasses, 36 inches long, 3 Bars. . . . $17.50



519. 520. 521. 522. 523. 524. 525.

No. 519. Railroad Pen, 5½ inches long, with Ivory Handle, ... $3.50
No. 520. Railroad Pen, 5½ inches long, K. & E's Improved, ... $3.75
No. 521. Dotting Pen, 6 inches long, with 6 Wheels, ... $2.75
No. 522. Dotting Pen, 6 inches long, with 6 wheels, Improved, ... $4.25
No. 523. Opisometer, for measuring curved lines, ... $1 80
No. 524. Tracer, ... $1.35
No. 525. Pricker, ... $1.75
No. 526. Needle Points, Shouldered, from . . . . . .10 to .25
No. 527. Drawing Pen, 4 inches long, with Ebony Handle, ... $1.00
No. 528. Drawing Pen, 5½ inches long, with Ebony Handle, ... $1.10

529. 530. 531. 532. 533. 534.

No. 529.	Drawing Pen, 4 inches long, with Joint and Ivory Handle, . .	$1.40
No. 530.	Drawing Pen, 4¾ inches long, with Joint, Pin and Ivory Handle,	$1.60
No. 531.	Drawing Pen, 5½ inches long, with Joint, Pin and Ivory Handle,	$1.80
No. 532.	Drawing Pen, 6½ inches long, with Joint, Pin and Ivory Handle,	$2.00
No. 533.	Border Pen, 6½ inches long, for broad lines.	$8.00
No. 534.	Curve Pen, 4½ inches long.	$1.50

NOTE.—We have recently added to our line of fine Instruments, from No. 489 to No. 534 of this Catalogue, a superior kind, of Swiss manufacture, that our customers may have a greater variety from which to make their selections. These Instruments are recommended as being, in every respect, first class. The excellence of Kern's celebrated Instruments (manufactured at Aarau, Switzerland), in which we always have dealt largely, is too well known to the profession to require praise from us. Alteneder's Instruments take rank with the above Swiss Instruments; but being somewhat lighter in construction, are preferred by many for this quality.

Alteneder's Patent Pivot-Joint Dividers,

With Other Instruments of His Manufacture.

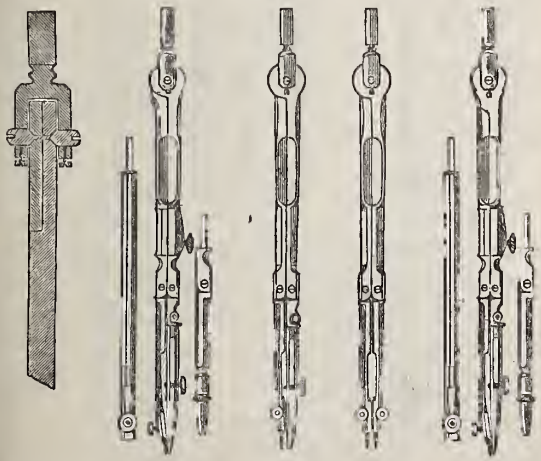
These Instruments are celebrated for their neatness of style and finish, and convenient form for use. Alteneder's Patent Joint for Dividers, a sectional view of which is represented in No. 534*a*, is so constructed as to prevent any irregular motion of the Instrument in being opened or closed:

Alteneder's New Patent Joint for Dividers, is represented by Nos. 534*b*, 534*c* and 534*d*. This Joint is so constructed that no dust can accumulate upon its inner surfaces when open, while it retains all the advantages of the old patent.

Alteneder's Bow-Spring Instruments, consisting of Spacer, Pen, and Pencil, Nos. 549, 550 and 551, deservedly rank high. Their superiority is in the evenness of temper and precision of spring, the bearing of which is always square upon the thumbscrew.

Alteneder's Pens, both straight and curved, are thoroughly made throughout.

NOTE.—Separate Instruments selected from the following or preceding lists will be neatly arranged in Cases of Morocco, or, of Oiled or Polished Fancy Woods, if desired, at an additional cost of from $3 to $15 each.



534a. 534b. 534c. 534d. 535.

No. 534*a*. Sectional view of Alteneder's Patent Pivot-Joint for Dividers.

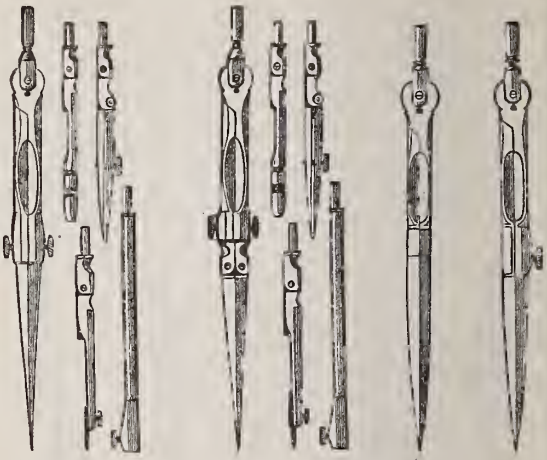
No. 534*b*. New Patent Needle Point Dividers, 6 inches long, with Pen and Pencil Points, and Lengthening Bar, ... $8.75

No. 534c. New Patent Needle Point Dividers, 6 inches long, with Fixed Pen Point, ... $5.75

No 534d. New Patent Needle Point Dividers, 6 inches long, for stepping, with Needle to shift for Pencil Point, ... $5.75

No. 535. Needle Point Dividers, 6 inches long, with Pen and Pencil Points, and Lengthening Bar, ... $7.50

No 535x. Imitation of 535, ... 6.50



536. 537. 538. 541.

No. 536. Needle Point Dividers, 6 inches long, with Pen and Pencil Points, and Lengthening Bar, both Legs to shift, ... $8.50

No. 537. Needle Point Dividers, 6 inches long, with Pen and Pencil Points, and Lengthening Bar, Jointed Legs to shift, . . . $11.00

No. 538. Plain Dividers, 6 inches long, ... $3.25

No. 539. Plain Dividers, 5 inches long, ... $2.75

No. 540. Plain Dividers, 3½ inches long, ... $2.00

No. 541. Hair Spring Dividers, 6 inches long, ... $4.00

No. 542. Hair Spring Dividers, 5 inches long, ... $3.50

No. 543. Hair Spring Dividers, 3½ inches long, ... $3.00

No. 544. Needle Point Dividers, 3½ inches long, with Pen Point, . . . $4.25

No. 545. Needle Point Dividers, 3½ inches long, with Pencil Point, . . . $4.25

No. 546. Needle Point Dividers, 3½ inches long, with Pen and Pencil Points, ... $6.25

No. 547. Needle Point Dividers, 3½ inches long, with Pen, Pencil and Needle Points, both Legs to shift, ... $7.00

544.

545.

546.

547.

No. 548. Furniture for Straight-Edge Beam Compasses, with Spring Adjustment, in Morocco Box, ... $8.75

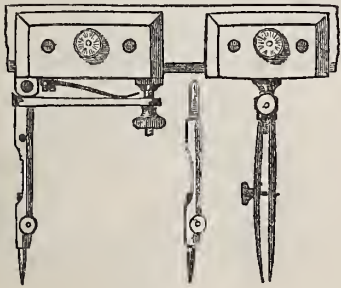
No. 548*a*. Sectional view of No. 548*c*.

No. 548*b*. Furniture for Straight-Edge Beam Compasses, with Spring Adjustment, without Morocco Box, ... $8.25

No. 548*c* Mahogany Bar, 30 inches long, for No. 548*b*, ...75

No. 548*d*. Boxwood Bar, 24 inches long, graduated, for No. 548*b*. $1.50

548a.



548b.

No. 549. Steel Spacing Dividers, 3 inches long, ... $2.00

No. 550. Steel Bow Pen, 3 inches long, with Needle Point, ... $2.70

No. 551. Steel Bow Pencil, 3 inches long, with Needle Point, ... $2.70

549.

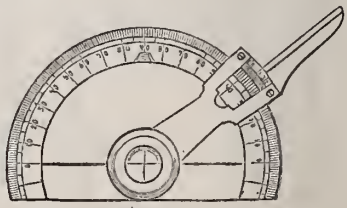
550.

551.

No. 552. Drawing Pen, $4\frac{1}{4}$ inches long, ... $1.50
No. 553. Drawing Pen, 5 inches long, ... $1.70
No. 554. Drawing Pen, $5\frac{3}{4}$ inches long, ... $1.95

552.

No. 554*a*. Protractor 5 inches diameter, ½ circle, ... $3.40
No. 554*b*. Protractor 6 inches diameter, ½ circle, ... $4.15
No. 554*c*. Protractor, 7 inches diameter, ½ circle, ... $5.25
No. 554*d*. Protractor, 6 inches diameter, whole circle, ... $8.00
No. 554*e*. Protractor, 8 inches diameter, whole circle, ... $11.00



554*f*.

No. 554*f*. Protractor, 6 inches diameter, ½ circle, with Vernier, ... $11.00
No. 554*g* Protractor, 8 inches diameter, ½ circle, with Vernier, ... $14.25
No. 554*h*. Protractor, 5 inches diameter, ½ circle, with Arm, ... $6.50
No. 554*i*. Protractor, 6 inches diameter, ½ circle, with Arm. $8.00

FROST & ADAMS' CATALOGUE.

SECTION XII.

DRAUGHTSMEN'S SUNDRIES,

COMPRISING

PROTRACTORS, SCALES, STEEL RULES, STRAIGHT EDGES TRIANGLES, CURVES, T SQUARES, PARALLEL RULES, TAPE MEASURES, &c.

Protractors and Scales.

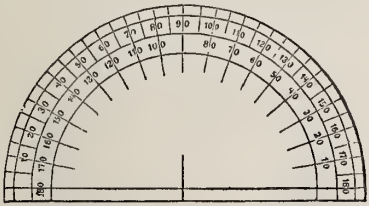
Paper Protractors.

No. 555. Circular Protractor, 13 inches diameter, ½ degrees, on Drawing Paper, ...30

No. 556. Same as No. 555, on Bristol Board, . . .40

No. 557. Same as No. 555, on Vegetable Tracing Paper, ...25

No. 558. Half Circle Protractor, 5 inches diameter, ½ degrees, on Bristol Board, ...25



561.

Horn Protractors.

No. 559. Railroad Curve Protractor, 8 inches diameter, having laid off on it twenty-three curves, from ½ degree to 8 degrees, with a radius of 400 feet to the inch, ... $1.60

No. 560. Protractor, 4 inches diameter, ½ circle, whole degrees, .15

No. 561. Protractor, 5 inches diameter, ½ circle, ½ degrees, ...25
No. 562. Protractor, 6 inches diameter, ½ circle, ½ degrees, ...30
No. 563. Protractor, 7 inches diameter, ½ circle, ½ degrees, ...50
No. 564. Protractor, 8 inches diameter, ½ circle, ½ degrees, ...80

Brass Protractors.

No. 565. Protractor, 4 inches diameter, ½ circle, whole degrees, . .10
No. 566. Protractor, 4 inches diameter, ½ circle, ½ degrees, ...35
No. 567. Protractor, 5 inches diameter, ½ circle, ½ degrees, ...55
No. 568. Protractor, 6 inches diameter, ½ circle, ½ degrees, . . .65

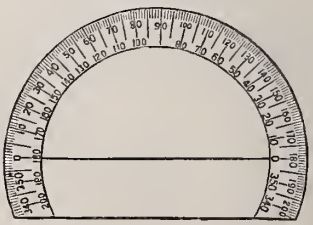
German Silver Protractors.

No. 569. Protractor, 4 inches diameter, ½ circle, whole degrees, . . .50
No. 570. Protractor, 5 inches diameter, ½ circle, ½ degrees, ...85
No. 571. Protractor, 6 inches diameter, ½ circle, ½ degrees, . . . $1.00
No. 572. Protractor, 7 inches diameter, ½ circle, ½ degrees, . . . $1.15
No. 573. Protractor, 5 inches diameter, ½ circle, Bevelled Edge, ½ degrees, ... $1.25
No. 574. Protractor, 6 inches diameter, ½ circle, Bevelled Edge, ½ degrees, ... $2.00
No. 575. Protractor, 7 inches diameter, ½ circle, Bevelled Edge, ½ degrees, ... $2.65

German Silver Swiss Protractors,

Of Superior Quality.

No. 576. Protractor, 4 inches diameter, ½ circle, whole degrees, . . $1.90
No. 577. Protractor, 5 inches diameter, ½ circle, ½ degrees, . . . $2.50
No. 578. Protractor, 6 inches diameter, ½ circle, ½ degrees, . . . $3.20
No. 579. Protractor, 6 inches diameter, ½ circle, ¼ degrees, . . . $3.90



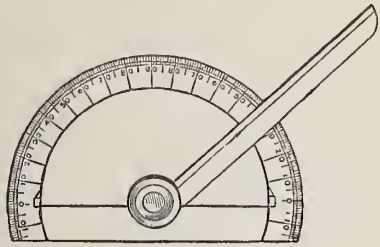
580.

No. 580. Protractor, 5 inches diameter, ½ circle, ½ degrees, . . . $3.00
No. 581. Protractor, 6 inches diameter, ½ circle, ½ degrees, . . . $3.50
No. 582. Protractor, 6 inches diameter, ½ circle, ¼ degrees, . . . $4.50

No. 583. Protractor, 5 inches diameter, ½ circle, ½ degrees, Horn Centre and Movable Arm, ... $6.50

No 584. Protractor, 6 inches diameter, ½ circle, ½ degrees, Horn Centre and Movable Arm, ... $7.50

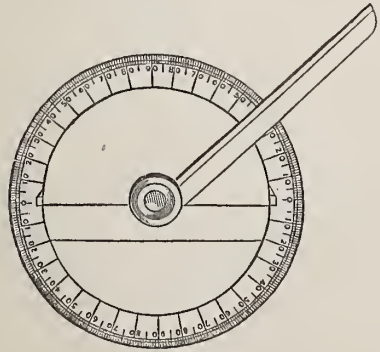
No. 585. Protractor, 7 inches diameter, ½ circle, ½ degrees, Horn Centre and Movable Arm. $9.00



583.

No. 586. Protractor, 8 inches diameter, ½ circle, ½ degrees, Horn Centre and Movable Arm, ... $12.00

No. 587. Protractor, 5 inches diameter, whole circle, ½ degrees, Horn Centre and Movable Arm. $10.00



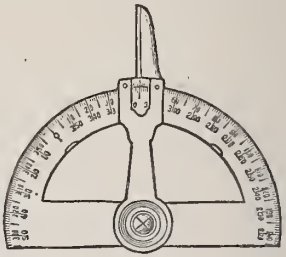
587.

No. 588. Protractor, 6 inches diameter, whole circle, ½ degrees, Horn Centre and Movable Arm, ... $12.00

No. 589. Protractor, 7 inches diameter, whole circle, ½ degrees, Horn Centre and Movable Arm, ... $14.00

No. 590. Protractor, 8 inches diameter, whole circle, ½ degrees, Horn Centre and Movable Arm, ... $16.00

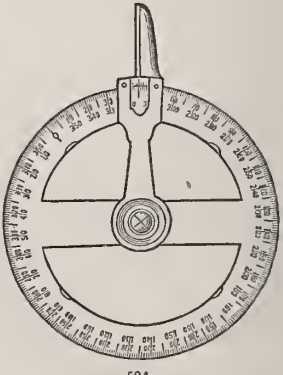
No. 591. Protractor, 5½ inches diameter, ½ circle, ½ degrees, and Vernier reading to three minutes, ... $11.00



591.

No. 592. Protractor, 8 inches diameter, ½ circle, ¼ degrees, and Vernier reading to one minute, ... $14.50

No. 593. Protractor, 10 inches diameter, ½ circle, ¼ degrees, and Vernier reading to one minute, ... $18.00



594.

No. 594. Protractor, 5½ inches diameter, whole circle, ½ degrees, and Vernier reading to three minutes, ... $14.00

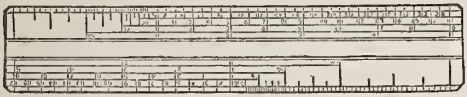
No. 595. Protractor, 8 inches diameter, whole circle, ¼ degrees, and Vernier reading to one minute, ... $16.25

No. 596. Protractor, 10 inches diameter, whole circle, ¼ degrees, and Vernier reading to one minute, ... $20.00

Ivory Scales and Protractors.

No. 597. Sector, 6 inches, opens to 12 inches, ... $2.25

No. 598. Scale, 6 inches long, same as in School Cases of Instruments, . .75



599.

No. 599. Architects' Scale, 12 inches long, with 16 different Graduations, all brought to the edges, ... $3.00

No. 600. Square Protractor, 6 inches long, 1¾ inches wide, whole degrees, with 6 Scales of Equal Parts, 4 Scales of Feet and Inches, 2 Scales of Chords and Diagonal Scale, ... $1.75

No. 601. Square Protractor, 6 inches long, 1¾ inches wide, whole degrees, with 6 Scales of Equal Parts, 8 Scales of Feet and Inches, 2 Scales of Chords and Diagonal Scale, ... $3.00

No. 602. Square Protractor, 6 inches long, 2 inches wide, whole degrees, with 8 Scales of Equal Parts, 10 Scales of Feet and Inches, 2 Scales of Chords, Diagonal Scale, and Line of 40 on lower edge, ... $3.25

No. 603. Square Protractor, same as No. 601, but in ½ degrees, . . . $4.00

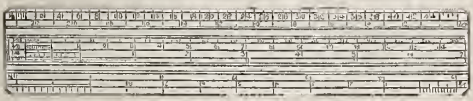
No. 604. Square Protractor, 6 inches long, 2¼ inches wide, ½ degrees, with 10 Scales of Equal Parts, 12 Scales of Feet and Inches, 2 Scales of Chords, Diagonal Scale, and Line of 40 on lower edge, ... $4.50

NOTE.—Square Ivory Protractors of larger dimensions and more fully divided, if desired.

Boxwood Protractors and Scales.

No. 605. Square Protractor, 6 inches long, 1¾ inches wide, whole degrees, with 6 Scales of Equal Parts, 4 Scales of Feet and Inches, 2 Scales of Chords, and Diagonal Scale, ...50

No. 606. Scale, 6 inches long, same as in School Cases of Instruments, . .20



607.

No. 607. Scales, 12 inches long, variously graduated, for Architects, each, $1.25

No. 608. Scales, 12 inches long, variously graduated, for Engineers, each, $1.25

Triangular Boxwood Scales.

No. 609. Scale 24 inches long, graduated 3-32, 3-16, ⅛, ¼, ⅜, ½, ¾, 1, 1½, 3 inches and 16ths to the foot $5.00

No. 610. Same as No. 609, 12 inches long, ... $2.00

609.

No. 611. Same as No. 609, 6 inches long, ... $1.50

No. 612. Chain Scale, 24 inches long, graduated 10, 20, 30, 40, 50, 60 parts per inch, ... $5.00

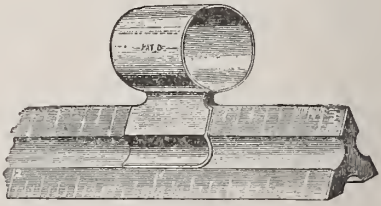
No. 613. Same as No. 612, 12 inches long, . . . $2.00

No. 614. Same as No. 612, 6 inches long, ... $1.50

No. 615. Chain Scale, 12 inches long, graduated 20, 30, 40, 50, 60, 80 parts per inch, ... $2.50

NOTE.—A large variety of Triangular and Flat Boxwood Scales, finely graduated, and to read both ways; also, Metric Scales, several styles, constantly in stock.

Triangular Scale Guard.



No. 616. Triangular Scale Guard, German Silver, ...25

NOTE.—With this attachment, the Triangular Scale is so guarded that the side in use can not be mistaken.

Paper Scales.

19 Inches Long, 1 3-4 Inches Wide.

No. 617. Series A. 6 in Set, graduated ¼, ½, ¾, 1, 1½, 3 inches to the foot, $1.00

No. 618. Series B. 6 in Set, graduated 3-32, ⅛, 3-16, 5-16, ⅜, ⅞, inches to the foot, ... $1.00

No. 619. Series C. 6 in Set, graduated 10, 20, 30, 40, 50, 60 parts per inch, $1.00

Single Scales of the above, each, ...20

Steel Rules,

For Machinists.

No. 620. Rule, graduated to 8, 10, 12, 16, 20, 24, 32, 48, 50, 64, 100 parts per inch,

3 inches long, ...	.50	9 inches long, ...	$1.50
4 "	.75	12 " . . .	2.00
6 "	1.00	24 "	4.00

Straight Edges.

621.

No. 621. Hardwood Lined, Square Edges, Thin,

24 inches long,	.40	48 inches long,	$1.15
30 "	.50	54 "	1.50
36 "	.70	60 "	2.00
42 "	.85	72 "	3.00

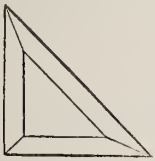
No. 622. Hardwood, Beveled Edge, Thick,

12 inches long,	.15	30 inches long,	.30
15 "	.15	36 "	.40
18 "	.20	42 "	.50
24 "	.25		

No. 623. Steel, with Square Edges, or one Edge Beveled the other Square, in various widths and lengths, per square inch, surface measure, ...06

Wood Triangles.

624.



625.

626.

627.

No. 624. Pearwood or Cherry Triangles, Framed, 30 × 60 degrees,

7 inches long,	.20	11 inches long,	.30
9 "	.25	14 "	.40

No. 625. Pearwood or Cherry Triangles, Framed, 45 degrees,

5 inches long,	.20	9 inches long,	.30
7 "	.25	11 "	.40

No. 626. Pearwood or Cherry Triangles, Lined, 30 × 60 degrees,

7 inches long,	.25	14 inches long,	.60
9 "	.40	17 "	.75
11 "	.50		

No. 627. Pearwood or Cherry Triangles, Lined, 45 degrees,

5 inches long,	.25	11 inches long,	.60
7 "	.40	14 "	.75
9 "	.50		

NOTE—Schrodor's Pearwood Triangles, of superior make, constantly in stock.

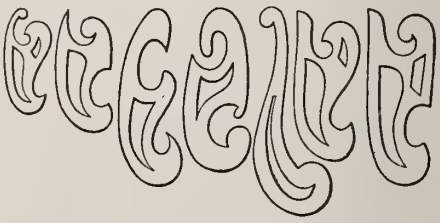
Blackboard Dividers.

628.

No. 628. Hardwood, 18 inches long, ... $1.00

NOTE.—A variety of patterns of German or American Manufacture, at various prices, always in stock.

Irregular Curves.



630.

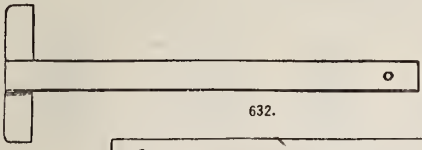
No. 629. Pearwood Curves, Common, according to size, ...15 to .30
No. 630. Pearwood Curves, Fine, according to size, ...25 to .50
No. 631. Horn Curves, according to size, ...60 to .75

T Squares.

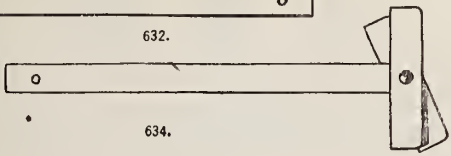
NOTE.—The following list of T Squares comprise the various patterns and styles mostly in use. Extra T Squares, in Fancy Woods, either with Fixed or Shifting Heads at various prices. Also extra large T Squares made to order.

No. 632. Pearwood, well seasoned, Fixed Head,

15 inches long,	.35	30 inches long,	.60
18 "	.40	36 "	.70
21 "	.45	42 "	.80
24 "	.50		



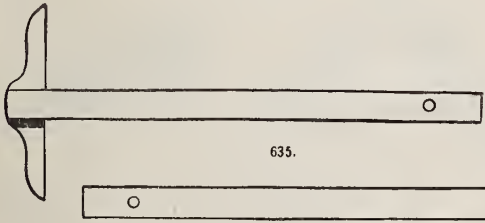
632.



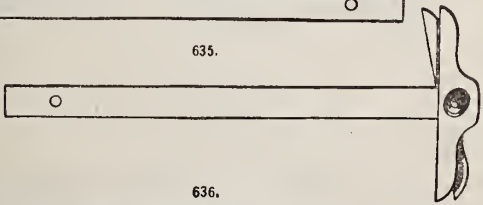
634.

No. 634. Pearwood, well seasoned, Shifting Head, Swivel No. 637,

15 inches long,	.80	30 inches long,	$1.20
18 "	.90	36 "	1.35
21 "	1.00	42 "	1.50
24 "	1.10		



635.



636.

No. 635. Maple Blade, Black Walnut Head, Fixed,

18 inches long,	.65	36 inches long,	$1.10
21 "	.75	42 "	1.25
24 "	.85	48 "	1.40
30 "	1.00	54 "	1.60

No. 636. Maple Blade, Black Walnut Head, Shifting, Swivel No. 637,

18 inches long,	$1.00	36 inches long,	$1.50
21 "	1.15	42 "	1.60
24 "	1.25	48 "	1.75
30 "	1.40	54 "	2.00

Swivels for T Squares.

637. 638. 639. 640.

No. 637. Common Swivel, Brass, ...25
No. 638. Fine Swivel, Milled Head, Brass, ...40
No. 639. Fine Swivel, with Nut and Washer, Brass, ...80
No. 640. Fine Swivel, with Nut and Washer, German Silver, ... 1.00

Parallel Rules and Trammels.

641.

No. 641. Parallel Rule, Ebony, Brass Mounted,

6 inches long,	.25	15 inches long,	$1.00
9 "	.50	18 "	1.25
12 "	.75	24 "	2.50

NOTE.—Winsor & Newton's Ebony Parallel Rules, like above pattern, at higher cost.

642.

No. 642. Parallel Rule, all German Silver, on Rollers, 15 inches long, . $12.00
" " " 18 " . 15.00

No. 643. Parallel Rule, all Brass, on Rollers,

9 inches long,	$4.50	15 inches long,	$10.00
12 "	8.50		

644.

No. 644. Parallel Rule, Ebony, on Rollers,

12 inches long,	$3.25	18 inches long,	$5.00
15 "	4.00		

No. 645. Parallel Rule, Ebony, Ivory Edges Graduated, on Rollers,

12 inches long,	$5.00	18 inches long,	$7.50
15 "	6.50		

No. 646. Elliptic Trammel, German Silver, finely constructed, . . . $20.00

No. 647. Elliptic Trammel, German Silver, with Pen and Pencil Points, . $6.00

Hard Rubber Triangles and Curves.

648.

649.

No. 648. Hard Rubber Triangles, 30 × 60 degrees,

4 inches long,	.25	11 inches long,	.75
5 "	.30	12 "	.90
6 "	.35	13 "	1.00
7 "	.40	14 "	1.25
8 "	.50	15 "	1.50
9 "	.60	16 "	1.75
10 "	.65		

No. 649. Hard Rubber Triangles, 45 degrees,

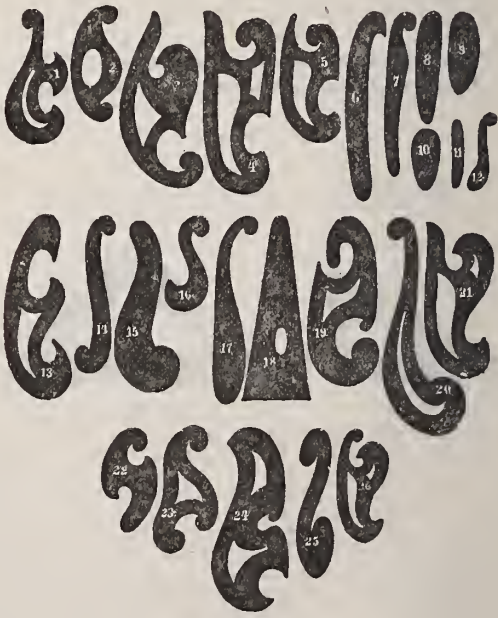
4 inches long,	.35	11 inches long,	$1.25
5 "	.40	12 "	1.50
6 "	.45	13 "	1.75
7 "	55	14 "	2.00
8 "	.70	15 "	2.25
9 "	.80	16 "	2.50
10 "	1.00		

No. 650. Hard Rubber Curves.

No. 1,	.35	No. 4,	.50
2,	.35	5,	.40
3,	.50	6,	.35

No. 650. Hard Rubber Curves.

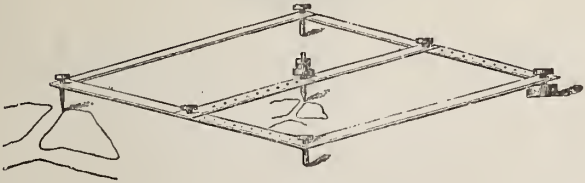
No. 7,	.30	17,	.35
8,	.25	18,	.40
9,	.25	19,	.50
10.	.20	20,	.50
11,	.20	21,	.45
12,	.30	22,	.35
13,	.50	23,	.40
14,	.35	24,	.60
15,	.45	25,	.40
16,	.35	26,	.35



Rubber Protractors.

No. 651.	Circular Rubber Protractor, 6 inches diameter, ½ degrees,	$5.00
No. 652.	Circular Rubber Protractor, 8 inches diameter, ½ degrees,	$6.50
No. 653.	Circular Rubber Protractor, 10 inches diameter, ½ degrees,	$8.00

Pentagraphs.

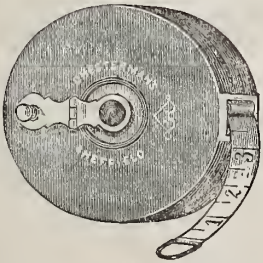


654.

No. 654.	Pentagraph, 20 inches long, of Hardwood, in Box, ...	2.25
No. 655.	Pentagraph, 17 inches long, of Hardwood, ...	.20
No. 656.	Pentagraph, 20 inches long, of Blackwood, Brass Mountings, and Rollers, in Case, ...	$18.00
No. 657.	Pentagraph, 27 inches long, of Blackwood, Brass Mountings, and Rollers, in Case, ...	$20.00

Chesterman's

Metallic and Steel Tape Measures.



658.

No. 658. Metallic Tape, in strong, bent Leather Case, div. 10ths or 12ths,

24 feet long, ...	$2.40	66 feet long, ...	$4.00
33 "	2.75	75 "	4.75
50 "	3.50	100 "	5.50

No. 659. Steel Tape, in strong, bent Leather Case, Folding Handle, the most accurate measure, div. 10ths or 12ths,

25 feet long, ...	$6.00	66 feet long, ...	$13.00
33 "	7.50	75 "	15.00
50 "	10.00	100 "	18.00

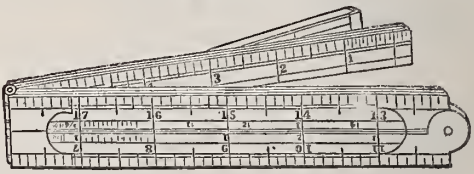
660.

No. 660. Pocket Steel Tape, in German Silver Case, with Spring and Stop,

3 feet long,	$2.00	9 feet long,	$4.00
5 "	2.50	12 "	5.50
6 "	2.75		

Pocket and School Rules.

Boxwood, Four Fold.



No. 661. Round Joint, Middle Plates, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ...20

No. 662. Square Joint, Middle Plates, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ...25

No. 663. Square Joint, Edge Plates, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ...35

No. 664. Square Joint, Bound, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ...75

No. 665. Arch Joint, Middle Plates, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ...30

No. 666. Arch Joint, Edge Plates, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ...40

No. 667. Arch Joint, Bound, 8ths, 10ths, 12ths and 16ths of inches, 13-16 inch wide, 12 inches long, ... $1.00

No. 668. Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths of inches, 100ths of a foot, 13-16 inch wide, 12 inches long, ...60

No. 669. Arch Joint, Edge Plates, 8ths, 10ths and 16ths of inches, Drafting Scale, 1¾ inches wide, 24 inches long, ...75

No. 670. Round Joint, 8ths and 16ths of inches, Two Fold, 1¾ inches wide, 24 inches long, ...35

Ivory, Four Fold.

No. 671. Square Joint, German Silver, Edge Plates, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ... $1.42

No. 672. Arch Joint, German Silver, Bound, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long, ... $2.67

No. 673. Arch Joint, Edge Plates, German Silver, 8ths, 10ths, 12ths and 16ths of inches, (100ths of a foot on edges of unbound,) 13-16 inch wide, 12 inches long, ... $2.50

No. 674. The same as No. 673, Bound, ... $3.50

No. 675. Square Joint, Edge Plates, German Silver, 8ths, 10ths, 12ths and 16ths of inches, (100ths of a foot on edges of unbound,) 13-16 inch wide, 12 inches long . . . $2.17

No. 676. The same as No. 675, Bound. $3.17

No. 677. Square Joint, Edge Plates, German Silver, 8ths and 16ths of inches, ⅝ inch wide, 12 inches long. $1.50

No. 678. The same as No. 677, Bound, ... $2.50

No. 679. Caliper, Square Joint, German Silver, 8ths and 16ths of inches, Two Fold, 13-16 inch wide, 12 inches long, ... $1.25

School Rules.

No. 680. Boxwood, Beveled Edge, 6ths and 16ths of inches, ¾ inch wide, 12 inches long, ...15

No. 681. Boxwood, Beveled Edges, 10ths and 16ths of inches, ¾ inch wide, 12 inches long, ... 20

Plumb Bobs.

684.

No. 662. Iron Plumb Bob 75

No. 683. Brass Plumb Bob, Steel Point, Screw Cap, ... $2.00

No. 664. Brass Plumb Bob, Steel Point, Screw Cap, medium, . . . $2.25

No. 665. Brass Plumb Bob, Steel Point, Screw Cap, large, . . . $2.50

Paper Weights.

No. 686. Lead Weight, 2½ inches in diameter, covered with Leather, . .50

No. 687. Iron Weight, with Knob, 2¼ inches in diameter, Nickel Plated. $1.00

Chamois Skins.

No. 688. Chamois Skins, in various small and large sizes, from . . .20 to 1.00

APPENDIX.

French Palette Knives,

With very flexible and delicate Points for Impasting.

No. 688.	Ebonized Handle, Blade 7 inches long,	.75
	" " 8 "	.88

Other patterns of various shapes,

Canvases on Thin Stretchers, for Sketches and Studies.

Exceedingly light and convenient for out-door sketching.

No. 689.				
10 × 12 inches,	.30	16 × 20 inches,	.55
10 × 14 "	.33	16 × 22 "	.55
10 × 16 "	.35	16 × 24 "	.60
12 × 16 "	.40	17 × 21 "	.63
12 × 18 "	.43	18 × 24 "	.75
12 × 20 "	.45	18 × 26 "	.75
14 × 16 "	.45	18 × 30 "	.80
14 × 18 "	.50	20 × 27 "	.80
14 × 20 "	.50	22 × 27 "	.85
14 × 24 "	.53	20 × 30 "	.85

American Academy Boards and Paper for Oil Painting.

No. 690.	Devoe's, 18½ × 24½ inches,	per sheet,	.33
No. 691.	Frost & Adams', 18½ × 24½ inches,	per sheet,	.30
No. 692.	Sketching Paper, 20 × 27 inches,	per sheet,	.15
No. 692½.	Sketching Board, 12½ × 19½ inches,	"	.10

Frost & Adams' Landseer's Bristle Brushes.

No. 693. Nos. 1 to 6, each from . . . . . .10 to .15

Frost & Adams' Bright's Bristle Brushes.

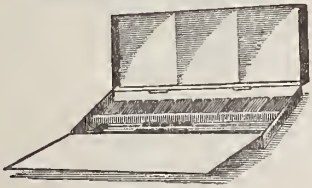
No. 694. Nos. 1 to 6, each from . . . . . .10 to 15

Oils, &c.

In 2 oz. Bottles. (See page 41.)

No. 695. Tucker's Drying Oil, ...20
No. 696. Tucker's Siccatif, ...20
No. 697. Winsor & Newton's Japan Gold Size, ...25
No. 698. Winsor & Newton's Amber Varnish, ...75
No. 699. Winsor & Newton's Brown Spirits Varnish, ...40
No. 700. Winsor & Newton's White Spirits Varnish, ...40

English Moist Water Color Boxes.



MOIST WATER COLOR BOX.

No. 701. Box of Moist Water Colors, Japanned Tin with Thumb-Hole, Hinged Lid and Palotte Flap, fitted according to the formula recommended by the Department of Science and Art, consisting of the following colors: Gamboge, Yellow Ochre, Vermilion, Light Red, Burnt Sienna, Sepia, Ultramarine, Lake, Vandyke Brown, Prussian Blue, with three Camel Hair Brushes, ...45

Drawing Books, &c.

No. 702. Size 7½ × 9½ inches, Best German, White Drawing Paper, Interleaved with Tissue Paper; Black, Pebbled Paper Cover, . .25
No. 703. Same as No. 702, size 9 × 12 inches, ...50
No. 704. Same as No. 702 without Tissue Paper, size 7¼ × 10¾ inches, . .20
No. 705. Same as No. 704, Manila Covers, size 7¼ × 10¾ inches, . . .15
No. 706. Size 7¾ × 8 inches, Smooth Paper for Geometrical Drawing, Manila Cover, ...10
No. 707. Size 9½ × 13½ inches, Harding's Thin Drawing Paper; Black, Pebbled Paper Cover, ...75

No. 708. Size, 5½ × 8½ inches, Manila Note or Sketch Book, 144 Leaves, Stiff Cover, ... 25

No. 709. Size 4½ × 7½ inches, Teacher's Note Book, Ruled in Cross Sections, ...50

Blocks for Pencil or Water Color Drawing and Painting.

No. 710. 7 × 10 inches, Harding's Thin Paper, Rough or Smooth Surface, 75

No. 711. Same as No. 710, 10 × 14 inches, ... $1.50

No. 712. Same as No. 710, 15 × 22 inches, ... $2.75

No. 713. 7 × 10 inches, Harding's Thick Paper, ... $1.15

No. 714. 10 × 14 inches, Harding's Thick Paper, ... $2.50

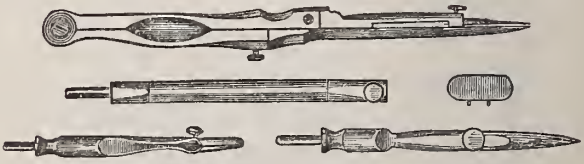
No. 715. 15 × 22 inches, Harding's Thick Paper, ... $4.75

Davidson's Velvet Rubber.

No. 716. Oblong Cakes, each from . . . . . 05 to 15

Drawing Instruments for Schools.

German Silver, Nickel Plated.



"BOSTON SCHOOL SET."

No. 717. Dividers 5 inches long, Needle Points, Pen and Pencil Points and Lengthening Bar, Steel Joints, ... $2.25

No. 718. Same as No. 717, Plain Joints, ... $1 50

No. 719. Dividers 5 inches long, Needle Points, Pencil Point and Lengthening Bar, Steel Joints, ... $2.00

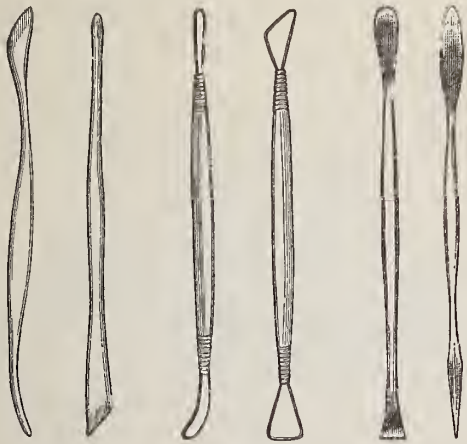
No. 720. Same as No. 719, Plain Joints, ... $1.30

No. 721. Dividers 5 inches long, Needle Points, Pencil Point, Steel Joints, $1.75

No. 722. Same as No. 721, Plain Joints, ... $1.10

No. 723. Brass Dividers 4½ inches long, Pencil Point, ...35

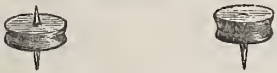
Modeling Tools for Wax, Clay or Plaster.



724. 725. 726.

No. 724.	Boxwood, 4 to 12 inches long, assorted patterns, ...	.10 to .40
No. 725.	Wire, 4 to 12 inches long, assorted patterns, ...	.40 to .80
No. 726.	Steel, 6 to 7 inches long, assorted patterns, ...	.35

Artists' Sketching Tacks.



No. 727.	Double Pointed, ...	per doz.,	.55
No. 728.	Single Pointed, ...	per doz.,	.45
No. 729.	Clamp, with Handle, ...		.75

NOTE.—By the aid of this Clamp, two canvases are placed face to face (being separated by the "Artists' Sketching Tacks,") are held firmly, and can be conveniently carried by the Artist in going to or from his work.

Convex Glasses, Used in Photographic Painting.

No. 730.	Card Size, Oval, 2⅜ × 3½ inches, ...	per doz.,	.35
No. 731.	Card Size, Square (Round Corners), 2⅝ × 3⅞ inches,	per doz.,	.35
No. 732.	Half Cabinet, Oval, 4 × 5½ inches, ...	per doz.,	.75
No. 733.	Half Cabinet, Square (Round Corners), 4⅛ × 5½ inches,	per doz.,	.75
No. 734.	Cabinet, Oval, 4¼ × 6¼ inches, ...	per doz.,	.83
No. 735.	Cabinet, Square (Round Corners), 4¼ × 6¼ inches,	per doz.,	.83

F. Soennecken's System of Round Writing.

No. 736.	Text Book for self-instruction, including 25 assorted pens, .	$1.45
	" " without pens, ...	1.10
	" " bound in cloth, with 25 pens, .	2.00
	Copy Book without instructions (School edition), including 25 assorted pens, ...	.90
	Copy Book without instructions (School edition), without pens,	.60
	Pens, single pointed, 8 widths; { No. 1, 2, 2½, 3, 3½, 4, 5, 6, BBB BB B M MF F FF FFF } per gro., " ¼ "	1.10 .35
	Pens, double pointed, 3 widths: { No. 10, 20, 30, B M F } per box, ¼ gross, " dozen, . . .	1.00 .50
	Sample assortment of single and double pens, 25 in a box,	.35

Round Writing

is an accomplishment desirable for every Scholar, whatever profession he may follow. Engineers, Architects and Draughtsmen will use it for titles and lettering on drawings. Headings in books, on policies, contracts, leases, etc., are distinct and ornamental when written in this style.

NOTE.—The new System of ornamental writing, called Round Writing, lately introduced in this country, has met with an unexpected and flattering success, although the copies furnished for instruction and exercise were written in German. A new edition in English is now published under the following titles:

A.—Handbook for Self-Instruction and Exercise.

B.—Copybook for Instruction in Schools.

The handbook is a carefully written guide to the whole system; how to form the letters and to avoid mistakes; including 28 pages of finely lithographed plates, with numbers, alphabets, etc., for exercise. The copybook for schools contains the 28 plates for exercise only, reserving the necessary explanation for the teacher.

Round Writing Pens,

Single and Double Points,

Are especially invented and made for this kind of script, with which it can be *written as rapidly as common handwriting.*

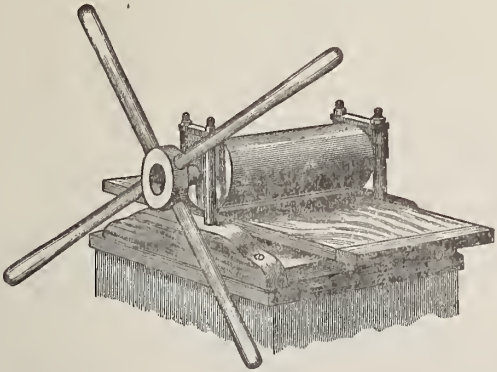
NOTE.—We advise all who wish to acquire perfection in this new style of writing to buy the Book for Self-instruction if there is no competent teacher. The use of the pens without the proper guide will discourage the beginner.

Soennecken's Fluent Writing Pens,

(Constructed on the principle of the Round Writing pens), have the following important features. 1—*The pen requires no pressure,* and, therefore, writes easier and more rapidly than other pens. 2—The above peculiarity and the shape of the points *prevent scratching* entirely, even on rough paper. 3—They give the writing the appearance of *uniformity and steadiness* not equalled with other pens. 4—Requiring no pressure, they wear slightly, outlast others, and are thus *cheaper.*

No. 737. 6 Nos., per gro., $1.10; ¼ gro., .35. Sample box, 25 pens, assorted, .25

Etchers' and Engravers' Materials.



ETCHING PRESS.

No. 738.

	Each.	Per Doz.
Tracing Points, in Wood, Nos. 1-6,	.20	$2.00
Etching Points or Engraver's markers—Double Points,	.30	3.00
Gravers, square and lozenge, various shapes, Seller's make,	.15	1.50
Gravers. Tint tools, various shapes, Seller's make,	.20	2.00
Graver Handles, plain,	.08	.80
" " Rosewood,	.12	1.25
" " long, with two German Silver Ferrules,	.50	
" " long, with two German Silver Ferrules, Seller's make,	1.75	
Scrapers, plain, 3 to 4,	.40	
" concave,	.60	
" " in handles, Seller's make,	1.75	
Burnishers, oval, ebony handles, 2½ inches,	.50	
" " " broad,	1.25	
" " large, 3 in., polished handles, Seller's make,	1.75	
Hand Vises, with wooden handles,	1.00	
Arkansas Oil Stones, in Mahogany cases,	1.00	
Emery Paper, No. 000 finest to No. 4,	.05	.50
Gelatine,—white, medium thick, 17×21, per sheet,	.45	
Nitric Acid, chemically pure, per bottle,	.50	
Chloroform, "	.50	
Etching Ground, best for Summer or Winter use, per ball,	.50	
Liquid Ground, per bottle,	.25	
Stopping-out-Varnish, "	.25	
Wax for waiting, per roll,		.25
Dabbers, covered with finest silk for Ground Laying, each,		.40
Dabbers for charging the Plate with the Ink, "		.25

Rubber Rollers for Ground Laying in Rebiting,

1½	2¾	4
Each, $2.00	$2.50	$3.00

Roulettes, assorted, from 3 to 6 rows of teeth, ... each, $1.75
Dotting Wheels, assorted, ... " 2.00
Rockers, 2½ inches wide, of 56, 64, 72, 90, 105 and 120 teeth to the inch, ... per inch, 4.00

Agate Ware Pans for Biting the Plates,

	5×7	7×9	8×10	10×12	11×14	14×17	15×19
Each,	.44	.66	.82	$1.32	$2.16	$5.10	$6.28

English Porcelain Pans,

	7×9	8×10	10×12	11×14	14×17	15×19
Each,	.60	.75	$1.20	$1.95	$4.50	5.60

Pads for Engravers, filled, 5, 6, 7 and 8 inches, . . . each, .50, .60, .70, .80
Printing Ink, black, in ½ and 1 pound cans, ... per lb., 2.00
Printing Ink for Tinting, Burnt Sienna, Burnt Umber, Vandyke Brown, " 2.00
Printers' Varnish or Plate Oil, No. 0, thin, ... per lb., .50
" " " " 1, medium, ... " .60
" " " " 3, strong, ... " .70
Fast Dryer, ... per bottle, .25

	Per Sheet.	Per Quirs.
Holland Plate Paper, Demy, 15½×20, ...	.07	$1.20
" " " Medium, 17×21½.	.08	1.40
" " " Royal, 19×24, ... ,	.12	2.00
" " " Imperial, 21×28½, ...	.16	3.25
" " " Columbier, 24½×36.	.30	6.00
" " " Double Elephant, 27½×41, ...	.45	10.25
Ross Stippled Board, ...	.40	9.50

Japanese and Chinese Papers in large variety.
Cloth for wiping the plates, ... per yd., .10
Blankets for Printing, of size to fit the Press, two thin and one thick one, ... per set, 3.50
Etching Presses, strongly built to answer all requirements, with Roller 10 inches long (as per cut on preceding page), ... each, 16.50
Etcher's Guide, by Thomas Bishop, with illustrations, cloth bound, . 1.00
Etcher's Hand-book, by Ph. Gilbert Hamerton, with illustrations, cloth bound, ... 2.25
A Treatise on Etching, by Maxime Lalane, with illustrations, cloth bound, 3.50
Boxes fitted complete with the most necessary Materials for Etching, at

Copper Plates, size 2⅜×3¾ in., ... each, .15
" " " 2¾×4¼ in., ... " .25
" " " 3×4 in., ... " .25
" " " 3×4½ in., ... " .30
" " " 3¼×5 in., ... " .35
" " " 3¾×5¼ in. . . . . " .40
" " " 4⅛×5¼ in., ... " .45

Copper Plates, larger sizes: 3×6, 4×6, 4¼×6, 4×8, 5×6, 5×6½, 5×7, 5×7½ 5½×7, 6×8, 6×9, 5×10, 7×9, 7½×10, and all other sizes between these at 2½ cents per square inch.
Copper Plates, sizes above 7½×10, are made to order of thicker plates, at 3¼ cents per square inch.
Zinc Plates, made to order, 1-16 inch thick, up to 7×10 in. at 2½ cents per square inch.
Zinc Plates, made to order, ⅛ inch thick, up to 12×15 in. at 3¼ cents per square inch.
Zinc Plates, made to order, ⅛ inch thick, larger than 12×15 in., at 4 cents per square inch.

STEEL PLATES, ALL SIZES, MADE TO ORDER.

Russell's Canvas Boards.

No. 739.

Something new and very desirable for Sketching in Oil.

4 × 6, . .10	9 × 13, . .35	12 × 16, . .40	14 × 24, . .65
4 × 8, . .12	9 × 15, . .35	12 × 18, . .45	14 × 26, . .70
6 × 8, . .15	9 × 18, . .40	12 × 20, . .50	14 × 28, . .75
6 × 10, . .20	10 × 12, . .35	12 × 22, . .50	16 × 20, . .65
6 × 12, . .20	10 × 14, . .35	12 × 24, . .50	16 × 22, . .70
8 × 10, . .25	10 × 16, . .35	14 × 16, . .45	16 × 24, . .75
8 × 12, . .30	10 × 18, . .40	14 × 18, . .50	16 × 26, . .80
8 × 14, . .30	10 × 20, . .40	14 × 20, . .50	18 × 22, . .80
8 × 16, . .35	12 × 14, . .35	14 × 22, . .60	18 × 24, . 1.00
9 × 11, . .30			

Papier Mache Plaques.

No. 740.

ROUND.	6 in.	7 in.	8½ in.	10 in.	12 in.	14 in.	16 in.
Plain, ...	.15	.20	.25	.30	.40	.50	.60
Japanned, ...	40	.50	.60	.75	.90	1.00	1.10
Gilt or Silvered, . .	.70	.75	.80	.85	1.25	1.63	1.75
Gold Edge, ...	.80	.85	1.00	1.10	1.50	1.68	1.90
Japanned, Gold Edge, .	1.00	1.10	1.25	1.35	1.68	1.75	2.00

OVAL.	10 in.	11 in.	13 in	15 in.
Plain, ...	.50	.55	.75	.95
Japanned, ...	.60	.75	.90	1.25
Gilt and Silvered, ...	.90	1.00	1.35	1.75
Gold Edge, ...	1.00	1.25	1.50	1.90
Japanned, Gold Edge, ...	1.25	1.50	1.75	2.00

Dull Ebonized Plaques at the same price as Japanned

Porcelain Plaques.

No. 741.

5 inch, . .20	8 inch, . .40	11 inch, . .70	15 inch, . $1.50
6 " . .30	9 " . .50	12 " . .75	16 " . . 1.75
7 " . .35	10 " . .60	14 " . .90	

Porcelain Panels.

No. 742.

3¼ × 4¼ in. .20	4¼ × 6¼ in. .60	6½ × 8½ in. $1.00	6 × 10 in. $1.50
4¼ × 5½ " .40	3¼ × 8½ " .60	4 × 10 " 1.00	5 × 12 " 1.50
	4 × 8 " .80	5 × 10 " 1.00	

Thin Porcelain Plaques.

No. 742½.

Round or Oval.

3 inch, ...40	5 inch, ...75	7 inch, . . . $1.15
4 " 50	6 " . . . 1.00	8 " . . . 1.25

China Plaques.

No. 743.

Glazed and Ungiazed.

9 in., . .50	12 in., . .85	14 in., . $1.50	16 in., . $3.00
10 " . .65			

No. 744.

Minton's China Tiles.

3 × 3 White, .08	4 × 6 White, .20	3 × 6 Cream, .12	6 × 6 Sage, .25
4 × 4 " .12	4 × 8 " .25	6 × 6 Pearl Blue, .25	8 × 8 Red, .50
5 × 5 " .15	4 × 4 Cream, .12	6 × 6 Celadon, .25	6 in. Round White, .20
6 × 6 " .15	5 × 5 " .15	8 × 8 Celadon, .60	6 in. Round Black, .25
7 × 7 " .30	6 × 6 " .20	6 × 6 Blue, .25	
8 × 8 " .35	7 × 7 " .30		
3 × 6. " .12	8 × 8 " .35		

Haviland China Plaques.

No. 745.

6½ inches,	.45	9½ inches,	$1.00	12 inches,	$3.00
7½ "	.63	10 "	1.50	13 "	3.50
8 "	.75	11 "	1.75	14 "	5.00

Pottery Plaques.

No. 748. Red.

8 inch,	.25	9 inch,	.45	12 inch,	.75	16 inch,	$1.40
8 "	.35	10 "	.50	14 "	1.00	20 "	2.00

Ferro-Prussiate Paper.

Ferro-Prusslate Paper is now largely used by architects and engineers for the *easy* and *rapid* duplication of drawings, tracings, contracts, estimates, etc., in fact all drawings and writings, provided they are on paper allowing light to pass through, and used on one side only. The following are some of the qualities it possesses:

1. It keeps any length of time if kept in a dark and dry place, and is consequently always ready for use.
2. If exposed to light behind a drawing or tracing, it will give a clear and perfect reproduction of the original, showing *clear white lines* on a blue background.
3. By its use all mistakes of figures or lines are avoided,—the reproduction being made photographically, the copy must necessarily be an exact counterpart of the original

The superiority of the results, and low price of the paper, make it an indispensable article in an office where accuracy is desired.

No. 747. 1 Roll, 11 yards long, 30 inches wide, . . $2.50; per yard, .40
" " 39 " . . 3.25; " .50

Print Frames and Bath Trays.

No. 747½. Print Frames, complete, with Plate Glass and Carpet Cushion,
20 × 24 inches wide, ... each, $10.50
Print Frames, same as above, 24 × 30 inches wide, . " 15.00
Print Frames, same as above, 35 × 46 " . " 28.00
Zinc Bath Trays, for Washing Copies, 20 × 24 inches wide, " 3.75
" " " 24 × 30 " " 4.50
" " " 35 × 46 " " 6.50

Cold Pressed Whatman's Gold Bevel-Edged Water Color Panels.

No. 748.

3 × 4½ inches,	.03	4¼ × 6½ inches,	.08
3 × 5 "	.04	3 × 8 "	.05
3½ × 5 "	.05	4 × 8 "	.08
4 × 5½ "	.06	5 × 7½ "	.10
4½ × 6 "	.07	5 × 10 "	.15

Tambourines.

No. 749.

8 inch, Sheep-skin head,	.50
10 " " "	.55
12 " " "	.70
8 " Calf-skin head,	.65
10 " " "	.75
12 " " "	1.00
8 " " " with Nickel rim,	1.50
10 " " " " "	1.75
12 " " " " "	2.00

Mirrors in Broad Wooden Frames for Decorating.

No. 750.

Size.	Pine. The glass set Square.	Chestnut, Ash or Oak. The glass set Square.	Chestnut, Ash or Oak. The glass set Diamond.	Ebonized. The glass set Square.	Ebonized. The glass set Diamond.
4 × 4, . . .	$1.80	$2.00	$2.15	$2.40	$2.55
6 × 6, . . .	2.00	2.25	2.50	2.75	3.00
8 × 8, . . .	2.50	2.75	3.00	3.50	3.75
10 × 10, . . .	3.50	3.75	4.00	4.50	4.75
12 × 12, . . .	4.50	5.00	5.15	5.50	5.75
14 × 14, . . .	5.75	6.25	6.50	7.15	7.50
16 × 16, . . .	7.25	8.00	8.25	9.00	9.25
18 × 18, . . .	8.50	9.25	9.50	10.50	10.75

Mirrors in Birds-eye Maple-wood Frames, square or diamond set. Also odd sizes furnished to order. The plain wooden frames gilded to order.

Japanned Water Color Boxes.

For Tubs Water Color.

No. 751.

For 10 tubes, . . . each,	$2.75	For 20 tubes, . . . each,	$4.00
" 12 " . . . "	3.00	" 24 " . . . "	4.50
" 15 " . . . "	3.40	" 30 " . . . "	6.00

L. L. Brown's Hand-made Drawing Papers.

No. 752.

Equal in quality to Whatman's best Drawing Papers; made like Whatman's in three different textures: hot pressed, cold pressed, and rough.

Imperial, 72 lb. 22 × 31, ... per quire, $2.25
" 90 lb. . . . . " 3.25

Sketch Books of Charcoal Paper, Bound in Full Linen Covers.

French Style.

No. 753.

No. 1, .40 No. 2, .50 No. 3, .55 No. 4, .65 No. 5, .90

Sketch Books for Pencil, Full Cloth.

Cheap.

No. 754.

No. 1, .20 No. 2, .25 No. 3, .30 No. 4, .35 No. 5, .45

Solid Sketch Blocks, Whatman's 72 lb. Paper.

No. 755.

4½ × 5½ inches, .	.35	5 × 8 inches, .	.00	9 × 11½ inches, .	1.10
5 × 7 " .	.45	5½ × 7 " .	.50	10 × 14 " .	1.40
		7 × 10 " .	.75		

Solid Sketch Blocks, made of German Paper, for Pencil.

No. 756.

4½ × 7 inches, .	.20	6 × 9 inches, . .	.30	9 × 11 inches, .	.65
5 × 8 " .	.25	7 × 10 " . .	.40	10 × 14 " .	.75

Frost & Adams' Sketch Books.

Cloth Sides, Leather Back and Corners, or Full Linen Covers, made from Whatman's Paper or English Crayon Paper.

No. 757.	No. 1.	Size 3¾ × 5¾ inches,	.60
	No. 2.	" 4½ × 6¾ "	.70
	No. 3.	" 4½ × 7⅞ "	.80
	No. 4.	" 5¾ × 8⅞ "	.90
	No. 5.	" 7 × 11 "	1.25

American Sketching Umbrellas.

Made by Frost & Adams.

No. 758.

31 in., with plain staff, . . $5.50 | 33 in., with plain staff, . . $6.50
37 in., with plain staff, . . $7.50

We would call your special attention to these Umbrellas, as they are a first-class article, and are sold at a very low price.

SKETCHING STAFF, ... $1.25
Sketching Staff, Jointed, ... 2.00

This is a new device for holding a common umbrella and will be found very convenient.

Ladies' Light Sketching Umbrella, ... 6.00

French Bristle Brushes, White Handles.

Round and Flat.

No. 759.

Assorted, 1 to 20, ... each, .10 to .25
" 1 to 12, ... per doz. .75

The bristles in the above are of superior quality.

Rosa Bonheur's long-handled French Bristle Brush, a superior article, Handles 20 inches long, ... each, .15; per doz., 1.50

German Bristle Brushes, in Yellow Handles.

No. 760.

Assorted, 1 to 12, ...10 to .15
" 1 to 12, white handles, ... per doz. .75

Claude Lorraine Glasses.

No. 761.

For giving by reflection a miniature presentation of any object one desires to draw or paint.

Black Diminishing Glasses, in Morocco Cases.

4 × 5 inches,	$4.50	5 × 7 inches,	$6.75	7 × 8½ inches,	$10.00
5 × 6 "	5.75	6 × 7 "	8.00	7 × 9 "	11.00
		6 × 8 "	9.00		

Frost & Adams' Ebonizing Preparation,

For Ebonizing Woods, Etc.

No. 762.

4 ounce wide mouth Bottle, ... each, .25
8 " " " . . . . . " .40
Surfacing Finish, in 4 ounce Bottles, ... " .25

Give the surface one coat of Ebonizing Preparation and when dry one or more coats of surface finish according to finish desired

New Works on Drawing.

"TREE DRAWING," in Two Parts,

AND

"BLOCKING OUT," in Two Parts,

BY B. F. NUTTING.

No. 763.

The first consists of exercises for acquiring the "touch," or mechanical expertness necessary not only in drawing trees from nnture, but in making copies from lithogrnphs or photographs. With these exercises examples are given, with directions for commencing, proceeding with, and finishing a tree.

The second consists of various examples for copying, with the "blocking out" in different stages attached. Its object is to start beginners in a right direction, and to correct in others the influence of bad methods. Teachers who use the blackboard will find this work very helpful.

Tree Drawing, each part, ...	.25
Blocking Out, "	.25

Blocking Out, Second Series.

"Seven Etched Plates," by B. F. Nutting.

This work, with the first series published by us is made as nearly self teaching as possible, and the faithful use of it will save expense for lessons by efficiently supplementing the work of a good teacher. Also being the method of the *best masters* and the *best schools*. It is the very best preparation for advanced study, whether in Drawing, Painting or Sculpture, as those have found who having commenced with it have afterwards studied abroad or with masters at home.

This, with the first series, is endorsed by the best artists.

Price, ... 75

Fancy Wood Panels.

For Oil Painting, with Gold Frosted Bevel Edges.

No. 764.				Fancy Edge.	White Wood.	Ebonized or Mahogany.	Gold Face.
Surface to paint	4 × 6,	1	inch bevel,	$ .75	$ .65	$1.00	$1.00
" "	4 × 8,	1	"	.85	.75	1.10	1.20
" "	5 × 10,	1	"	1.00	.95	1.25	1.50
" "	6 × 8,	1¼	"	1.10	1.00	1.30	1.65
" "	6 × 10,	1	"	1.15	1.05	1.35	1.80
" "	6 × 12,	1¼	"	1.40	1.20	1.50	2.00
" "	6 × 14,	1¼	"	1.50	1.30	1.60	2.25
" "	7 × 9,	1¼	"	1.30	1.10	1.45	1.80
" "	8 × 10,	1¼	"	1.40	1.20	1.50	2.00
" "	8 × 12,	1¼	"	1.50	1.30	1.60	2.25
" "	10 × 14,	1½	"	2.00	1.75	2.15	
" "	10 × 20,	2	"	3.25	2.60	3.15	
" "	12 × 16,	2	"	3.10	2.50	3.00	
" "	12 × 24,	2	"	3.60	3.00	3.65	
" "	14 × 20,	2	"	3.50	3.00	3.65	

Plush Thermometer Panels.

Cardinal and Blue Plush.

No. 765.

4¼ × 6½ inches, . $1.40 | 4 × 8 inches, . $1.75 | 5 × 10 inches, $2.00

Frost & Adams' Finest and Best Rich Gold Paint.

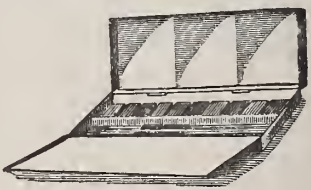
A Superior Article for all Decorating Purposes, ...	.50
Frost & Adams' Deep Gold Paint, a Fair Article, ...	.20

Japanned Tin Boxes with Moist Colors.

With Hinged Lid (palette flaps).

THE "CHILD'S" BOX.

No. 766. Contains one flap palette, for mixing tints, 6 Pans of choice Moist Water Colors, 1 Camel's Hair Brush, . . . Retail, .25

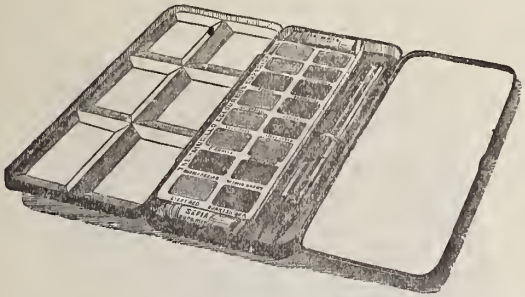


ROWNEY'S SCHOOL OF ART BOX.

No. 767. Has two flap palettes, for mixing tints, 10 Pans of choice Moist Water Colors, 3 Camel's Hair Brushes, . . Retail, .45

THE "REMBRANDT" BOX.

No. 768. Has six wells in the cover, for mixing tints, 12 Metal Pans of choice Moist Water Colors, 3 Camel's Hair Brushes, . Retail, .50

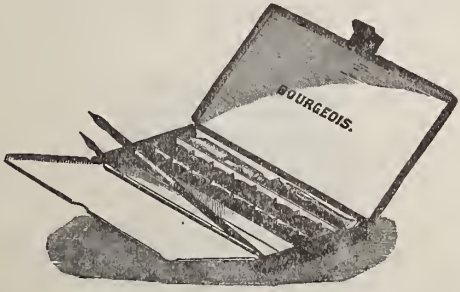


THE LARGE "MURILLO" BOX.

No. 769. Has six wells in the cover, for holding tints, 1 flap palette, for mixing tints, 16 Pans of superior Moist Water Colors, 1 Tube of Moist Chinese White, 1 Tube of Moist Sepia, 4 Camel's Hair Brushes. . . . . Retail, $1.25

THE SMALL "MURILLO" BOX.

No. 770. Is the same as above, with 12 Pans of superior Moist Water Colors, 1 Tube of Moist Chinese White, 1 Tube of Moist Sepia, 3 Camel's Hair Brushes. . . . . Retail, $1.00

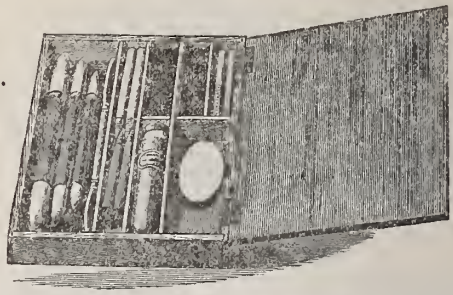


THE EXTRA FINE "BOURGEOIS" BOX.

No. 771. Has two flap palettes, for mixing tints, 16 Pans of Extra Fine Moist Water Colors, 1 Tube of Moist Blanc d'Argent, 1 Tube of Moist Blanc Fixe, 2 Camel's Hair Brushes, . . Retail, $2.75

New Palette Chalk Box,

For Students, Schools of Art, etc.



The Lid of this Box is covered inside with Chamois Leather for Stumping, and the thumb-hole is so arranged as to allow of the Box being held on the hand as comfortably as a Palette.

No. 772. The Box contains 4 each Nos. 1, 2 and 3 Square Black Conté Crayons, 2 each Nos. 1 and 2 Lemoine's Round White Crayons, 1 Bottle Stumping Chalk (Sauce Velours), 1 each Nos. 4 and 6 White Paper Stumps, 1 No. 2 White Leather Stump, 4 White Tortillon Stumps, 4 Gray Tortillon Stumps, 1 Brass Portcrayon. Weight, fitted complete, under 8 ounces; or about the same as an ordinary 12-inch Mahogany Palette, . . . Price, $1.25

Japanned Tin Charcoal Sketch Box.

With suitable divisions for holding our Improved Fixateur, bottle Fixatif, one piece Amadou, Charcoal, Crayon Sauce, Porte Crayon, Stump and Thumb Tacks.

No. 773. Empty, size, 10¼ × 5 inches, ... $2.40
Fitted, ... 3.50 to 4.50

Empty Thumb-Hole Boxes.

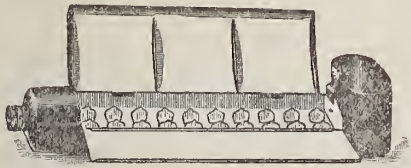
No. 774.
11 Pan Box, . $3.25 | 17 Pan Box, . $4.00 | 21 Pan Box, . $4.25

Empty Palette Boxes.

No. 775.
6 ½ Pans, $1.85 | 8 ½ Pans, $2.10 | 10 ½ Pans, $2.25 | 12 ½ Pans, $2.50

Round Empress Boxes and Bottle Combined.

No. 776.
8 ½ Pans, . . $2.25 | 10 ½ Pans, . . $2.40 | 12 ½ Pans, . . $2.75



Oval Empress Boxes and Bottle Combined.

No. 777.
18 ½ Pans, . . $3.00 | 20 ½ Pans, . . $3.25 | 24 ½ Pans, . . $3.50

Reliance Tracing Cloth,

Is a new article of much heavier material than has ever been placed on the market. This Cloth is peculiarly adapted to tracings that are subjected to a great amount of handling. It is of great strength and durability, and has a perfect surface for both ink and pencil. It is made in four different widths, and is put up in rolls of twenty-four yards each. We would advise our patrons to give it a thorough trial.

No. 778.

30 inches wide,	.	per roll, $6.00	40 inches wide,	.	per roll, $8.00
37 " "	.	" 6.80	43 " "	.	" 9.50

Transparent Drawing Parchment and Tracing Papers.

No. 779.	Extra Thick,	in rolls of 10 yards, 39 inches wide,	. . . $4.00
	Medium,	in rolls of 20 yards, 39 inches wide,	. . . 5.25
	Medium,	in rolls of 33 yards, 39 inches wide,	. . . 9.00
	Thin,	in rolls of 20 yards, 39 inches wide,	. . . 5.00

These papers are highly appreciated for their superior and uniform quality, and are unsurpassed for durability and transparency. We warrant them not to become brittle nor to discolor by age.

Our Parchment Papers are very strong, stretch well on the board, erase well, take inks, colors and pencil like ordinary drawing paper, and combine all qualities of drawing and tracing papers.

The extensive use of the Blue Process for copying drawings gives the Parchment drawing papers special value, as Blue Process copies can be taken directly from drawings made on these papers without first making a tracing.

Stippled or Autographic Paper,

For Illustrating.

No. 780. Ross', ... per quire, $9.50; per sheet,		.40
McClure and McDonald's, ... "		.60

Rice Paper.

No. 781.

Packages, 3¼ × 3½,	per box,	.25	4¾ × 7¼, . . .	per sheet,	.15
4¾ × 6¼, . . .	per sheet,	.10	7 × 10, . . .	"	.30

Ivory Paper.

No. 782.

11 × 15 inches,	. per sheet,	.50	15 × 22 inches,	. per sheet,	$1.00

Porcelain Paper.

No. 783.

11 × 15 inches,	. per sheet,	.45	15 × 22 inches,	. per sheet,	.90

Miniature Ivories.

For Oil and Water Color Painting.

No. 784.

No. 1, size 1⅜ × 2¾,	. each,	.25	No. 6, size 2½ × 4½,	. each,	$1.25
2, " 1⅝ × 4¼,	. "	.30	7, " 3¼ × 3¾,	. "	1.50
3, " 1¾ × 4½,	. "	.50	8, " 3¼ × 4¼,	. "	1.75
4, " 2 × 4,	. "	.63	10, " 4 × 5,	. "	3.00
5, " 2⅛ × 4¼,	. "	1.00			

Draftsman's Adjustable Curve Ruler.

Patented May 20, 1884. Additional Patents applied for.

This tool is designed to supplement the well-known French Curves, and will be found a most excellent and handy tool, combining every form of curve in one. The working edge is made flexible with a certain amount of spring to it, and will always assume a uniform and perfect curve.

It can be instantly adjusted and retained to any form of curve, the retaining power being a strip of pure drawn lead, which is covered by sleeves, and slides between two ribbons of tempered steel.

The working edge is cylindrical in cross section, so that by slightly inclining the pen two or more parallel lines can be drawn without removing the ruler.

This tool is commended by leading architects and draftsmen, and meets a want long felt. It is well made in every part, and neatly finished in nickel plate.

Whole length of tool, 14½ inches. Length of working edge, 10 inches.

No. 785. Price each, 14½ inches, ...	$1.50
" " 30 "	2.87

Patent Spiral Thumb Tacks.

Nickeled.

No. 786.

No. 1, per doz., ...	.25	No. 2, per doz.	.30

Perfectly safe for the fingers and convenient to drive.

Green's Prepared Tints for Penciling.

These Tints are prepared on stout Drawing Paper for the modern style of Pencil Drawing in Black and White; the White being obtained by scraping the surface of the paper with a knife or eraser.

No. 787.	Imperial, 22 × 30,	per sheet,	.35
	½ Imperial,	"	.20

The Adolfi Process.

A Medium for Painting on Silks, Satins, etc., in Oil Colors.

The art of painting in oil on silks, satins and similar materials, has long been sought for, but without success, owing to the want of a process by which the colors used could be rendered supple, and not liable to crack when the goods painted with them were made up into ladies' dresses, curtains, etc. By this invention, the satin, or other material, preserves its suppleness intact; the colors are bright and clean, and have the power of refracting the different tints of the material upon which the picture is painted, thereby producing a novel and beautiful effect. Another merit of this process is that the colors do not become faint or dull by exposure to the air, but seem to gain increased brilliancy after the silks and satins, on which they have been used, have been kept for years.

No. 788. Price per Bottle, ... $1.00

Brush Cases.

JAPANNED-TIN BRUSH CASE.

No. 789.	Japanned Tin, 1½ × 14 inches,		.80
	" " 1⅛ × 7 "		.50
No. 790.	Leather Pouches, for 8 Pencils or Brushes,		$1.00
	" " " 20 " "		1.20
	" " Flat, for 8 Pencils or Brushes,		1.65

Liquid Indelible Drawing Inks.

No. 791.

Black,	.35	Blue,	.40	Scarlet,	.50
Brown,	.40	Green,	.40	Carmine,	.50

Set of one bottle each of above six inks, in neat wooden box, . . $2.25

Whiting's Inks — Etching, Marking, Laundry and Process.

For Etching on Linen.

No. 792.

Etching Ink (with Preparation, Pens and Directions), ... $1.00
Etching Ink, trial size, ...60

[N. B.—Whiting's Indelible Etching Ink is the acknowledged standard—approved by the Decorative Art Societies, and considered the "only ink" for the finest and most artistic work.]

Outline Ink (for use without the Preparation), ...50
Outline Ink, trial size, ...30
Transparent Tracing Box, ... Whitewood, $1.00; Walnut, 1.25
Stretching Block, ...50
Indelible Colored Inks, single colors (as below), ... each, .75
Indelible Colored Inks in Cases (with Etching Pens, Mordant, and full directions.)
Case No. 2, Scarlet and Blue, ... 1.25
Case No. 3, Crimson, Blue, Violet and Green, ... 2.25
Case No. 4, Crimson, Blue, Violet, Brown, Green, Scarlet, with Brush and Penholders, ... 3.00
Whiting's Ebonized Etching Pens, ... per doz., .15
Harrison & Bradbury's Etching Pens, ... " .15
Indelible Laundry Ink, in neat and convenient stands, ...25

Magic Marking Ink, ...60
Magic Marking Ink, trial size, ...40

Polished wooden case contains Ink, Mordant, Smoothing Glass, etc. Can be used with or without first preparing the cloth. Is indelible without heat or sunlight; intensely black, and not faded by washing chemicals, etc. Will outlast the fabric.

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An Illustrated Book of Special Instructions, giving the fullest directions for all Etching and artistic Marking, with many useful suggestions, hints about drawn work, etc.

"Worth ten times its cost to any one wishing to make 'a profession' of Etching on Linen, Decorative Marking, etc."

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Transparent Photo. Colors, 10 Bottles, in handsome case, ... $3.00
Half Case (Flesh, Crimson, Blue, Yellow and Brown), ... 1.75

For Architects, Designers, Draughtsmen, etc.

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Liquid Process Drawing Ink, indelible and lustreless, ...35

Liquid Indelible Drawing Inks, in stands. (Warranted impervious to water.)

Black,	.25	Green,	.35	Yellow,	.35	Crimson,	.45
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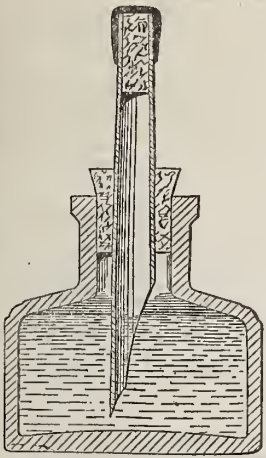
We have the following Price Lists separate, which are all complete: Repousse Tools and Designs, Materials for Tapestry Painting, Materials for Silk, Plush and Lustra Painting, Brass Plaques, Etc.

Higgins' American Drawing Ink.



Sections of Bottle with Improved Combined Stopper and Pen Filler.

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This American Ink is strictly an American Product, being produced according to a new formula, by a new process, and with new apparatus. It is much finer, more intensely black, and more perfectly fluid than India or any other Ink. The finest lines of the most intense blackness may be drawn with it continuously; and it will work longer in the pen without cleaning or refilling than any known ink. It is not a solid ink ground up, but is a New Native Ink, made fluid from the outset; and it will never become gelatinous, thick, or offensive, or deposit carbon, like all so-called "Liquid Inks" with which Draughtsmen have been heretofore afflicted. It thus fills the long-felt want of Draughtsmen.

A Perfect Liquid Ink. Always ready. Always good.

This Ink is put up in a special bottle (see cut), with a device for filling the pen superior to the usual brush, and is thus ready for instant use, and is sold at the popular Price per Bottle, .25

To suit different kinds of drawing, and meet the preferences of some Draughtsmen, two kinds of ink are supplied, viz.:

General Drawing Ink—(Red Seal.)

Which is suitable for all general drawing, whether lines or tints, or for pen or brush work. This quality is almost identical with the finer kinds of India Ink, but is much preferable in being already fluid, and in being finer and blacker. It flows very smooth and firm, and will work well on any drawing surface, in either fine or heavy lines.

Waterproof Drawing Ink—(Black Seal).

This Ink is best for all working, architectural, map, or other drawing designed to stand moisture, rough handling or washing over with colors. Lines drawn with this Ink will resist washing immediately after drying. It is not recommended for brush shading, but for lining or solid black work is superb. It is the best ink for Whatman's or other hard papers, on which it flows freely, giving fine, solid black lines, and is more limpid than the General.

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Higgins' Carmine Ink, ...50
Higgins' Blue Ink, ...40

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Is the best and cheapest in the market for Artists, Architects, Draughtsmen, etc. Used and endorsed by the U. S. Government Engineers.

This Ink is comparatively new, and as a substitute for India Ink it has many advantages and is much cheaper. It is jet black. Water will not blur it. Acids or chemicals will not remove it. It is always ready for use and does away with the disagreeable task of having to be "rubbed down" as is the case with India Ink. Colors can be put over it without blurring in the least.

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If found too thick dilute with distilled or good clear water.

Ask for A. Millochau's (pronounced Mill-o-shaws). Use no other.

Price per ½ ounce Bottle,	.15
" 1 "	.25
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Glass Painting Colors.

Moist in Tubes.

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Blue,	.30	Medium Brown,	.65	Scarlet,	$1.25
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Light Green,	.30	Orange,	.30	Intense Blue,	.65
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Varnish for Glass Painting, 1 ounce bottle, ...50

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A Strong Japanned Tin Box, with thumb-ring and hinged lid, fitted with 3 Camel's Hair Brushes on sticks, and the following twelve colors in compressible tubes:—

Chinese White	Chrome Yellow	Ultramarine
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22 x 30 inches,	$1.00	15 x 22 inches,	.50

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A new Detail Drawing Paper introduced by us in place of Manila Paper, has met with great success. It is tough, hard, and uniform in grain and finish, stands erasing, and takes ink and water color perfectly.

The buff or cream color is very agreeable to the eye and admits of handling without soiling. This paper will be welcomed by all who are tired of using Manila paper for drawing. Although the price per pound is much above that of Manila, the paper is so much lighter, owing to the entire absence of mineral adulterations, that there is hardly any difference in the price per yard.

		In rolls of 30 to 40 lbs. per lb.	In rolls of 10 yards, per roll.	Per yd.
Duplex Paper, thin,	36 inches wide,	.25	$1.20	.15
" "	56 "	.25	2.00	.25
" medium,	36 "	.25	1.50	.18
" "	42 "	.25	1.80	.20
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Unprepared Heliographic Papers.

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No. 802.

24 inches wide,	per 50 yd. roll,	$3.20	36 inches wide,	per 50 yd. roll,	$4.75
27 "	"	3.50	42 "	"	5.25
30 "	"	4 00	54 "	"	7.00

Helios Paper, Thick.

24 inches wide,	per 50 yd. roll,	$4.70	36 inches wide,	per 50 yd. roll,	$7.00
27 "	"	5.25	42 "	"	6.00
30 "	"	6.00	54 "	"	10.50

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No. 1. Size of Pot or Oven, 10 inches high by 12. Fires from 15 to 25 pieces with one bushel of charcoal. Weight, 250 lbs. Price, . . $15.00

No. 2. Size of Pot or Oven, 16 inches high by 12. Fires from 25 to 40 pieces with one and a half bushels of charcoal. Weight, 300 lbs. Price, $20.00

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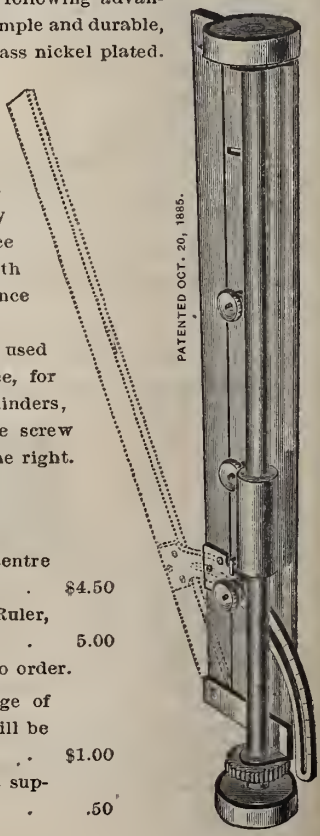
In introducing these Kilns the inventor is assured by trial, they fully meet the wants of amateurs. They are simple in construction; durable, being made of cast iron and fire brick; compact, occupying but small space; uniform in work; can be placed in use without pipe, chimney or flue, fired in area, woodshed or on the open ground, or can be set up in an open chimney and used in the house.

These Kilns with full directions for use, and an assortment of Stilts are boxed ready for shipping.

The "Universal" Ruler and Section Liner.

This Ruler combines the following advantages: it is accurate, neat, simple and durable, being made of steel and brass nickel plated. The cuts on the opposite page were drawn with this Ruler and illustrate a few of the many things which may be done with it. Lines may be drawn in any direction and at any distance apart, from one one-hundredth of an inch to any distance desired.

This instrument may be used without the spacing device, for parallel ruling, shading cylinders, etc., by simply turning the screw near the ratchet towards the right.



PRICES:

Six inch Ruler, without centre point, ...	$4.50
Eight and one-half inch Ruler, (with centre points), . .	5.00
Larger sizes supplied to order.	
A nickel plated straight edge of any length up to 3 feet, will be furnished for	$1.00
A velvet lined case will be supplied for	.50

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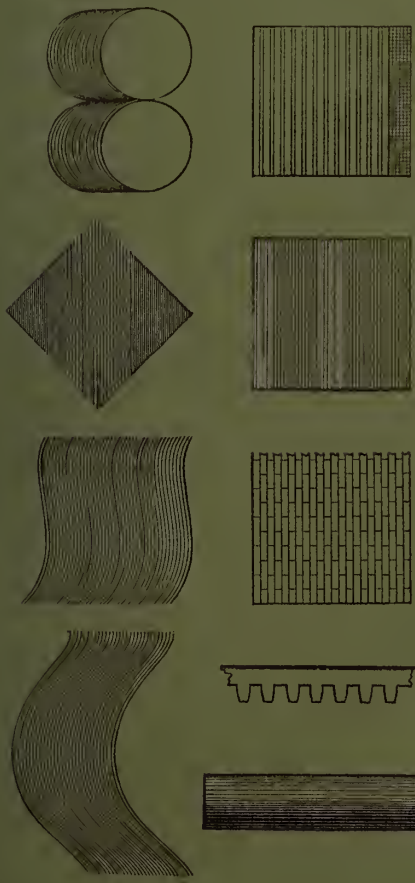
Samples of Work done by

The "Universal" Ruler and Section Liner.



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